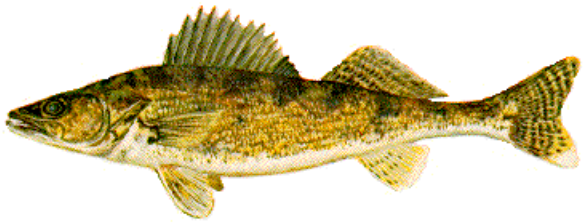

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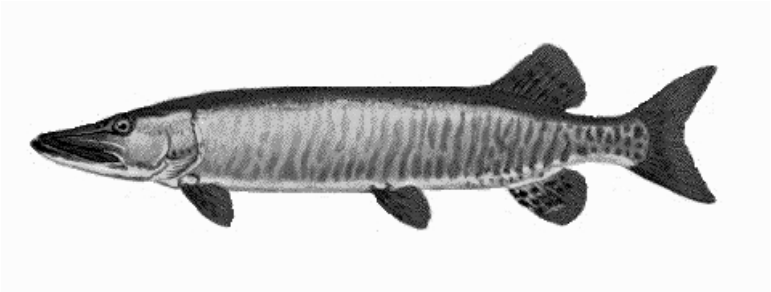
2015-2016 Ceded Territory
Fishery Assessment Report



Thomas A. Cichosz

Administrative Report # 87

Treaty Fisheries Assessment Unit
Bureau of Fisheries Management
Madison, Wisconsin
September, 2017

Walleye illustration Virgil Beck

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INTRODUCTION

The northern portion of Wisconsin, encompassing 22,400 square miles and including all or parts of 30 counties, was ceded by the Lake Superior Chippewa Tribes to the United States in the Treaties of 1837 and 1842 (Figure 1). Although the lands were ceded to the United States, the Chippewa Tribes retained hunting, fishing, and gathering rights throughout this area (USDI 1991). The Wisconsin Ceded Territory contains 77% of Wisconsin's lakes accounting for 53% of the total inland lake surface acreage in Wisconsin (Staggs et al. 1990). Of lakes within the Ceded Territory, over 900 contain walleye (*Sander vitreus*) and more than 600 contain musky (*Esox masquinongy*), and the vast majority of naturally reproducing walleye and musky populations are found within the Ceded Territory.

Figure 1. Map of Wisconsin showing the Ceded Territory (shaded).

Walleye and muskellunge are tremendously popular with Wisconsin anglers and are important economically. Chippewa tribal members rely on these same fisheries for preservation of their cultural heritage and as a food source. In 1983, the United States Court of Appeals for the Seventh Circuit affirmed the rights of six Wisconsin Chippewa Bands (Bad River, Lac Courte Oreilles, Lac du Flambeau, Sokaogon, Red Cliff, and St. Croix) to fish off-reservation waters in the Wisconsin Ceded Territory. Tribal fishing uses traditional methods (e.g. spearing and netting) as determined by Treaties of 1837 and 1842 between the Bands and the United States government. Since affirmation of tribal fishing rights in 1983 the Wisconsin Department of Natural Resources (WDNR) has worked to integrate tribal harvest opportunities with sport fisheries in the Ceded Territory.

To facilitate and manage shared tribal and recreational angler harvest, an intensive data collection and analysis effort began in 1987. The program evolved as knowledge of unique aspects of the Ceded Territory shared fisheries increased, and developed into the current program in 1990. The primary goal is to collect information essential to protecting Ceded Territory fish populations from over-exploitation by the combined tribal and recreational fisheries.

As part of this effort WDNR works with the Great Lakes Indian Fish and Wildlife Commission (GLIFWC) to establish safe harvest quotas for walleye and muskellunge and to monitor the shared fisheries throughout the Ceded Territory. The majority of tribal harvest occurs during spring while walleye and muskellunge are congregated in shallow water to spawn and are readily taken by spear. A smaller number are harvested throughout the remainder of the year with a variety of capture methods including spearing, gill netting, fyke netting, set-lining, and angling. Netting and spearing are highly efficient methods and, unlike low efficiency methods such as angling, are not self-regulating (Beard et al. 1997, Hansen et al. 2000). Based on the inclusion of high efficiency tribal harvest in these fisheries, over-exploitation is a strong possibility in the absence of intensive management and could result in long-lasting and potentially irreversible damage.

Wisconsin DNR gathers data from a representative sample of lakes throughout the Ceded Territory each year in order to assess abundance and stability of walleye populations. Walleye populations are evaluated by WDNR using three primary methods: spring adult and total population estimates, fall age-0 (young-of-year) relative abundance estimates, and creel surveys of angler catch and

harvest. When combined, these methods provide information on the current harvestable population, an indication of the future harvestable population, and the degree of exploitation in the walleye fishery. Wisconsin DNR also conducts muskellunge and black bass *Micropterus* spp. population estimates each year and estimates harvest of these species via creel surveys; WDNR does not quantify recruitment of these species via young-of-year (YOY) surveys.

Population estimates are critical to the management of Ceded Territory fisheries. Accurate population estimates allow calculation of "safe harvest" levels that allow harvest while minimizing the potential of jeopardizing a species' future abundance or persistence.

Creel surveys provide vital information about the use of fisheries by recreational anglers, including angling effort, catch, and harvest; Estimates from surveyed lakes can be extrapolated across larger areas (e.g. Ceded Territory). When coupled with population estimates, creel harvest data can be used to estimate angler exploitation for individual species. The WDNR treaty fisheries program focuses primarily on game species (walleye, muskellunge, largemouth *Micropterus salmoides* and smallmouth *Micropterus dolomieui* bass, and northern pike *Esox lucius*), but creel information on all species is recorded.

In support of this effort, data is collected and provided by GLIFWC and the United States Fish and Wildlife Service (USFWS) which conduct spring adult population estimates and fall age-0 surveys on additional lakes each year. Tribal harvest data is made available by GLIFWC which censuses open-water tribal harvest of all species and conducts periodic creel surveys to assess winter harvest of muskellunge through the ice.

This annual report summarizes WDNR efforts related to management of the shared Ceded Territory fishery from early 2015 through early 2016. In doing so, it reports on one 'annual cycle' of work related to management of these fisheries. The typical annual cycle begins with establishment of safe harvest levels prior to spring spearing activities, includes conducting creel surveys, population estimates, and YOY walleye surveys on selected lakes, and results in summarization of tribal and angler exploitation rates for Ceded Territory lakes[1].

[1] For the purposes of this report 'Tribal' refers to catch and harvest by traditional methods used by tribal fishers (e.g. spearing and netting); 'Angler' indicates catch and harvest by hook and line, and may include tribal members angling during open seasons if interviewed during creel surveys.

METHODS

Estimation of Population Size

With more than 900 walleye lakes and 600 muskellunge lakes in the Wisconsin Ceded Territory it is logistically impossible to obtain precise population estimates from all lakes in a single year. In addition, fish populations in general and walleye populations in particular are extremely variable and can change dramatically from year to year. Therefore, WDNR selects several lakes each year for walleye population estimates and corresponding nine-month creel surveys[2]. The lakes sampled by the WDNR within the Ceded Territory during 2015-16 were chosen using a stratified random design considering size, historic level of tribal harvest, and primary walleye recruitment source. Of the lakes sampled each year, four are 'trend lakes' which are evaluated every three years to provide meaningful data on temporal trends within walleye populations; trend lakes sampled in 2015 were Diamond (Bayfield Co.), Grindstone (Sawyer Co.), Plum and Snipe (VilasCo.) lakes. In addition, at least one large lake or lake chain is chosen to be surveyed each year. In 2015 the Minocqua Chain (includes Tomahawk, Minocqua and Kawaguesaga lakes, Oneida Co.), Thunder (Oneida Co.), Wissota (Chippewa Co.), and Long (Washburn Co.) lakes were large waters sampled.

The continuing randomized survey of lakes throughout the history of this program (Appendix A) provides data necessary for successful management of the shared fisheries. Data from lake surveys is used to estimate walleye population size and derive safe harvest levels, estimate tribal and angler harvest and exploitation rates, examine temporal and spatial trends in walleye populations and angler effort, and maintain up to date characterizations of population status for each lake.

Walleye

Walleye spawning population estimates[3] for various lakes in the Ceded Territory were made using a standard mark-recapture methodology. Walleyes were initially captured for marking using fyke nets shortly after ice out. Each fish was measured (total length; inches and tenths) and marked with one

[2] Creel surveys are conducted from the first Saturday in May through early March and correspond to the Wisconsin open season for game fish species. The month of November was excluded from analyses due to poor ice conditions and low angler effort.

[3] Spawning population estimates may be less than adult population sizes if all adults do not spawn in every year. The degree to which this occurs in Wisconsin is currently unknown and may vary by lake.

of two lake specific fin clip; two clips were used in each lake to classify fish as either ‘adult’ or ‘juvenile’. Adult (mature) walleyes were defined as all fish 15” or longer and all fish for which sex could be determined (regardless of length). Walleye of unknown sex less than 15” long were classified as juvenile (immature). In lakes where previous estimates of walleye spawner abundance were available, the goal was to mark 10% of the anticipated spawning population. Where no preliminary abundance estimate was available, at least one walleye per acre of lake surface area was targeted for marking. Marking continued until the target number was reached or spent females began appearing in the fyke nets.

Two electrofishing recapture runs were conducted in each lake and the data used to estimate abundance of the spawning or total walleye population. Due to rapid dispersal and decreased vulnerability of adult walleye following spawning, only mark-recapture results from the first electrofishing recapture run were used to estimate spawning walleye abundance; results from the second electrofishing recapture run were used to augment those results when estimating total walleye population abundance.

Walleyes were initially recaptured with AC electrofishing gear within one week (typically 1-4 days) after netting and marking were completed. In each lake, the entire shoreline (including islands) was sampled to ensure equal vulnerability of marked and unmarked walleyes to capture. All walleyes in the captured were measured and examined for marks; in most lakes, any unmarked walleyes collected in the first electrofishing run were fin clipped accordingly for the lake and fish maturity. A second whole-shore electrofishing recapture run was conducted approximately 1-4 weeks after the first electrofishing run.

Based on electrofishing recapture data, population estimates were calculated with the Chapman (1951) modification of the Petersen Estimator as:

$$N = \frac{(M+1)(C+1)}{(R+1)}$$

where N was the population estimate, M was the number of fish marked and released, C was the total number of fish captured and examined for marks in the recapture sample, and R was the total number of marked fish observed in C.

The Chapman Modification method was used because it provides more accurate population estimates in cases when R is relatively small (Ricker 1975). Walleye population and variance estimates

were calculated by length-class (≤ 11.9", 12-14.9", 15-19.9", and ≥ 20.0") and summed accordingly to estimate adult and total walleye abundance.

Fish population size structure is described using proportional stock density (PSD) and relative stock density (RSD) as reviewed by Anderson et al. (1996). Walleye size data were analyzed to compare proportions of both quality (PSD) and preferred (RSD) length fish gathered in spring surveys (April and May); data were limited to spring surveys to minimize bias associated with fish growth throughout the year and to best characterize the size structure of walleye populations near the outset of the harvest seasons. For the purpose of this report stock, quality and preferred walleye lengths were set at 12, 15 and 18 inches, respectively. Walleye length data were taken from WDNR statewide PSD/RSD database. Proportional stock density (PSD) is calculated as:

$$PSD = \frac{\text{number of fish} \geq 15 \text{ inches}}{\text{number of fish} \geq 12 \text{ inches}} X\ 100$$

Relative stock density (RSD) is calculated as:

$$RSD = \frac{\text{number of fish} \geq 18 \text{ inches}}{\text{number of fish} \geq 12 \text{ inches}} X\ 100$$

Muskellunge

Muskellunge population estimates were conducted over a two-year period, with marking in year-1 and recapture in year-2. In year-1, muskellunge were marked during fyke netting and electrofishing efforts throughout the sampling season. All muskellunge 20" and larger were given a primary fin clip (the same clip given to adult walleye and bass). Muskellunge less than 20" long were given an alternate fin-clip (generally top caudal). In year-2, muskellunge were recaptured using fyke nets in mid-May, to coincide with the muskellunge spawning season. Adult muskellunge population estimates (considered all sexable fish of any size, plus all fish of unknown sex ≥30" at the time of marking) were made using Chapman modification of the Petersen estimate:

$$N = \frac{(M+1)(C+1)}{(R+1)}$$

where N is the estimated adult population size; M is the total number of muskellunge marked in the lake in year-1 equal to or larger in length than the smallest sexable fish; C is the number of muskellunge re-captured in year-2, excluding fish smaller than the minimum length counted in year-1 plus 2 inches; and R is the number of marked fish recaptured (Wisconsin Technical Working Group 1999; Margenau and AveLallemant 2000).

Largemouth and Smallmouth Bass

In a subset of sampled lakes designated as "comprehensive survey" lakes, largemouth *Micropterus salmoides* and smallmouth *Micropterus dolomieu* bass encountered during fish surveys were marked by fin clips. Bass larger than 12.0" were given the same primary (adult) fin-clip as was given to walleye in the same lake; bass 8.0- 11.9" were given the secondary (juvenile) fin-clip for the lake. In these lakes, fyke nets were set just after ice-out in the spring and again after the first electrofishing recapture run. A total of four electrofishing surveys were conducted in each lake. The first electrofishing run was conducted within a week of pulling the early fyke nets. The second run was conducted approximately two weeks after the first electrofishing run. Third and fourth electrofishing runs were conducted at approximately weekly intervals thereafter between mid-late May and mid-June. The entire shoreline of the lake (including islands) was sampled. Bass populations were estimated after both the third and fourth runs. For each bass species population estimates were calculated for various size classes (8.0-13.9", 14.0-17.9" and ≥18.0") using the same Chapman modification of the Petersen estimator as described for walleyes. The recapture run yielding the population estimate with the lowest coefficient of variation is reported.

Establishment of Safe Harvest

The Wisconsin joint fishery is managed by calculating total allowable catch and 'safe harvest' levels for walleye and muskellunge on a lake-by-lake basis. Safe harvest is set such that the risk of exceeding 35% exploitation for walleye or 27% for muskellunge is less than 1-in-40 (Hansen 1989; Hansen et al. 1991). This risk-management system differs from a quota system, which would potentially close fisheries once a harvest cap was reached. Beginning in the spring of 2015 management of angler exploitation began using a ceded territory wide 3 walleye/day angler bag limit and more restrictive size

limits than previously in place for most lakes. This system replaced the “sliding bag-limit” system in place since 1990 under which bag limits ranged from 1-5/day and were determined based upon tribal declarations and harvest (Cichosz 2016).

Safe harvest levels are set on all Ceded Territory walleye and muskellunge lakes using the most accurate population estimates available. The most reliable estimates are clearly taken from mark-recapture estimates performed in the same year for which safe harvest is calculated. However, because the temporal overlap of the spearing season and spring population estimate sampling make this logistically impossible, these population estimates are used to estimate abundance for the following two years. In addition, given the year-to-year variability associated with fish populations, safety factors are incorporated to account for the largest potential decrease between years (Hansen et al. 1991). Population estimates older than two years are not considered to accurately represent a lake’s current population and are not directly used to set safe harvest. In this case, an estimate is calculated from a regression model using lake acreage as a predictor of population abundance (Hansen 1989). Each year new population estimates are incorporated into the regression model but no estimates are removed. Lakes with multiple population estimates are averaged before being entered into the regression model. Three regression models are used depending on the primary source of walleye recruitment in the lake (Nate et al. 2000). Separate models are used for: (A) lakes sustained primarily by natural reproduction (NR; Figure 2), (B) lakes sustained primarily through stocking efforts (ST; Figure 3), and (C) lakes with low density populations maintained through intermittent natural reproduction (REM; Figure 4). Refer to Appendix B for a complete description of recruitment code designations used for lakes throughout the Wisconsin Ceded Territory. These models are used to set safe harvest yearly for the majority of the walleye lakes in the Ceded Territory.

A similar method is employed to set safe harvest for muskellunge. Because muskellunge mark-recapture surveys are conducted over a two-year period, a population estimate for a given lake is employed to directly set safe harvest only once. In the absence of a recent population estimate, a regression model is used to make an estimate of muskellunge abundance. As with walleye, population predictions in this model are based on lake acreage, but a single model is used for all muskellunge waters in the Ceded Territory (Figure 5).

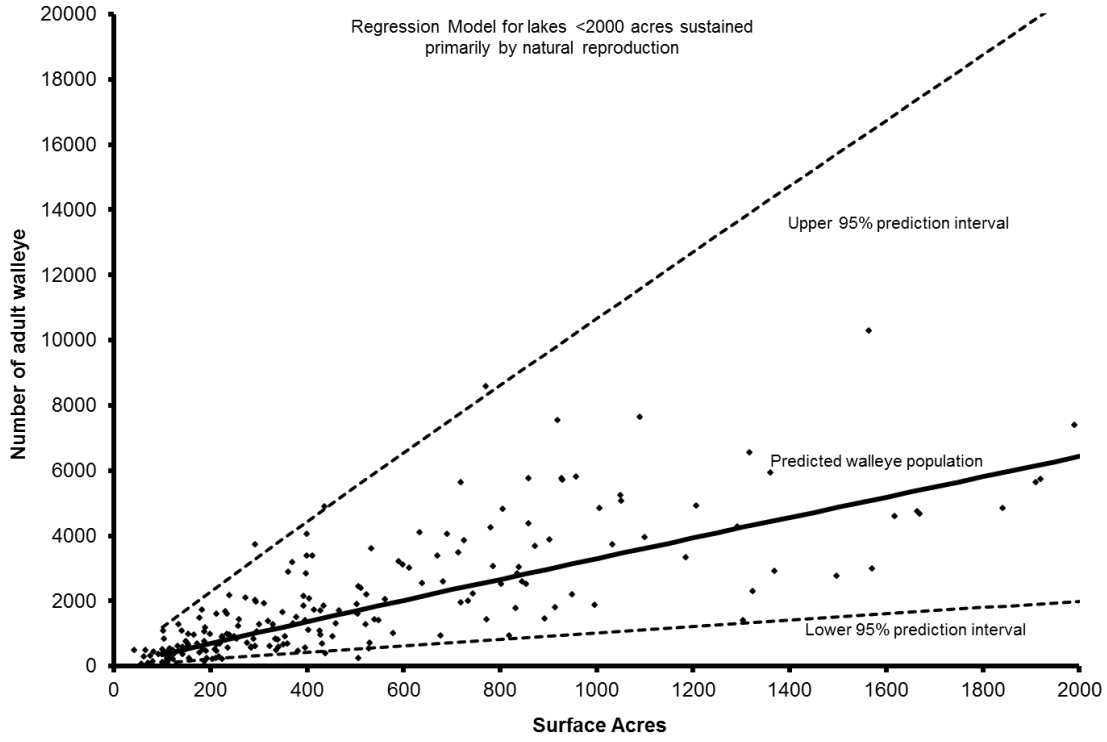

Figure 2. Regression model used to set 2015 safe harvest levels for lakes sustained primarily by natural reproduction (applies to all lake sizes; only lakes <2000 acres are shown for illustrative clarity).

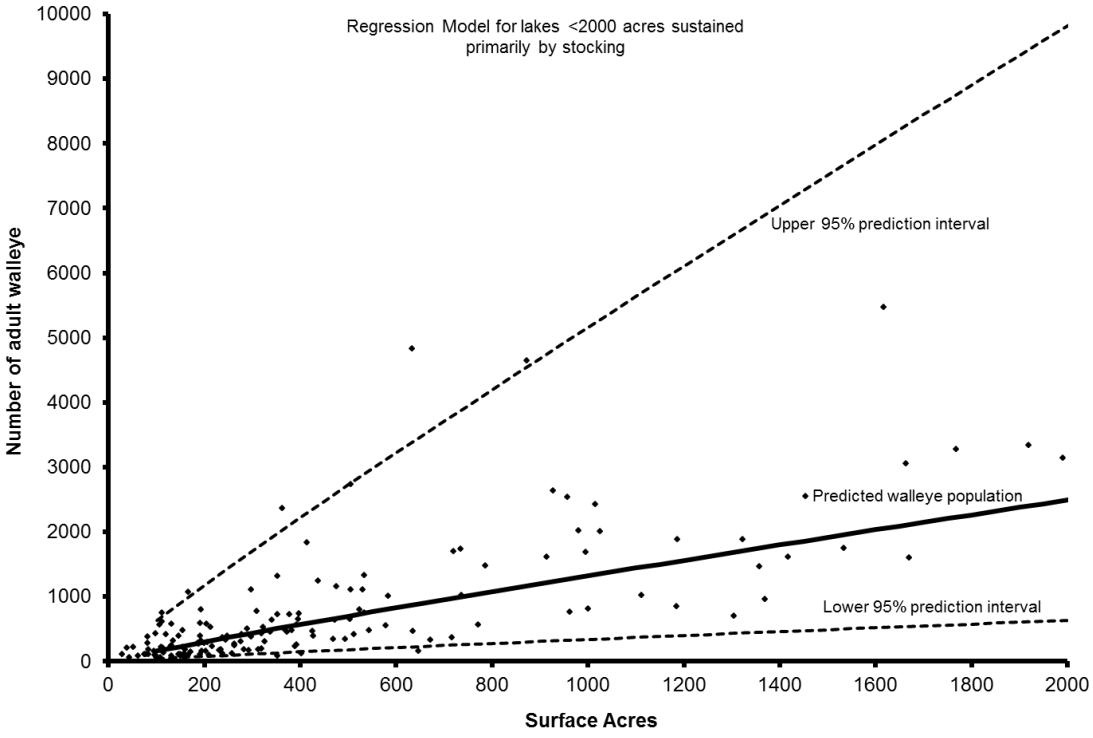

Figure 3. Regression model used to set 2015 safe harvest levels for lakes <2000 acres sustained primarily by stocking (applies to all lakes; only lakes <2000 ac. are shown for illustrative clarity).

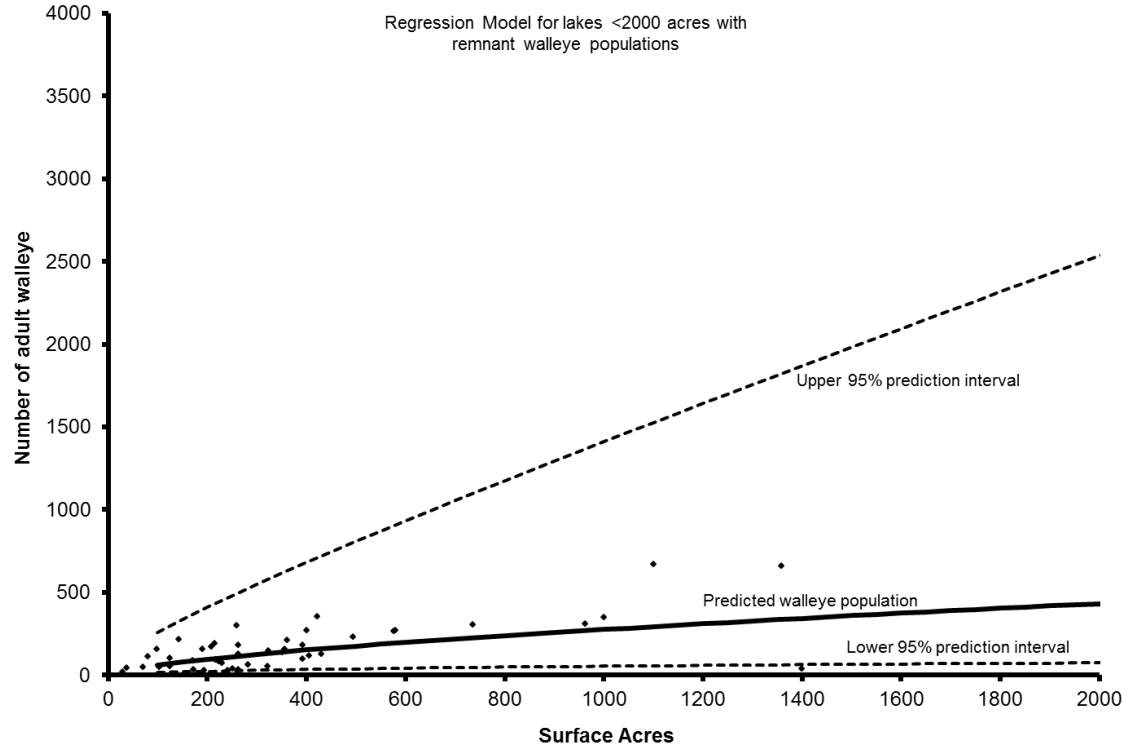

Figure 4. Regression model used to set 2015 safe harvest levels for lakes <2000 acres with remnant walleye populations (applies to all lakes; only lakes <2000 acres are shown for illustrative clarity).

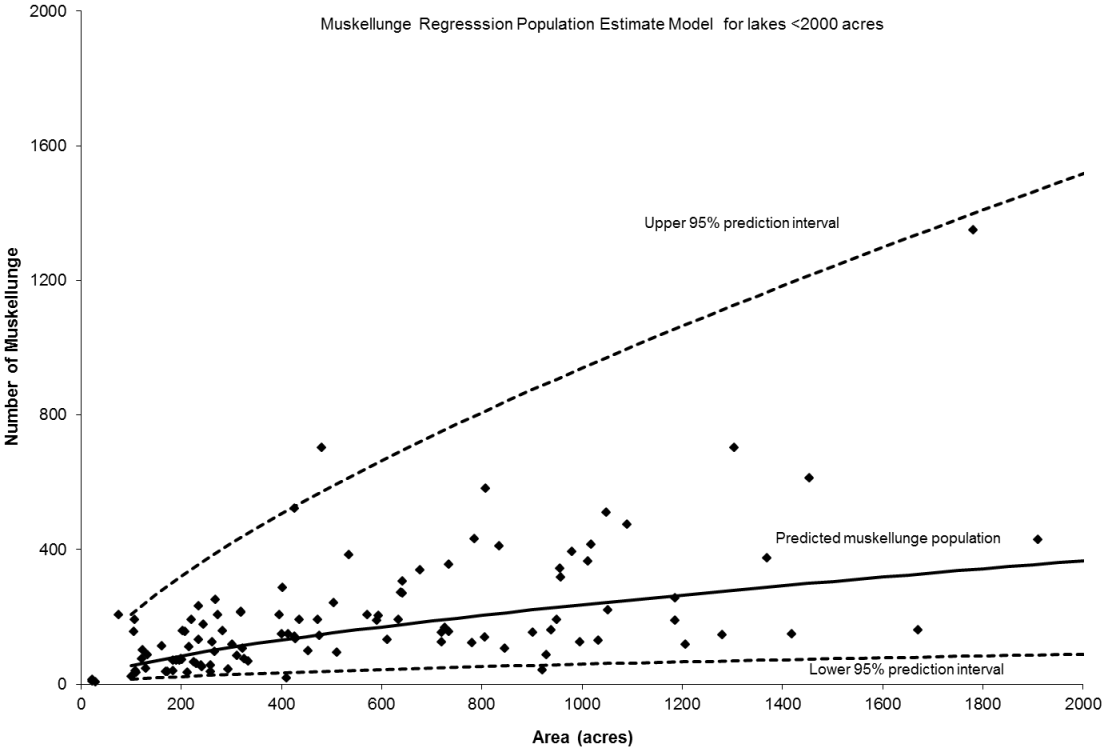

Figure 5. Regression model used to set 2015 safe harvest levels for muskellunge populations in lakes <2000 acres (applies to all lakes; only lakes <2000 acres are shown for illustrative clarity).

Estimating Fishing Effort and Harvest

Tribal Harvest and Exploitation

In lakes where current walleye population estimates are available, tribal harvest numbers are used in conjunction with population estimates to estimate tribal exploitation of walleye populations. Tribal harvest numbers for individual lakes are supplied to WDNR by GLIFWC and encompass all tribal harvest methods used (e.g. spring or winter spearing, netting). Tribal exploitation is estimated by dividing the total tribal walleye harvest within each lake by the estimated adult walleye population size for that same lake.

Angler Harvest and Exploitation - Creel Surveys

Creel surveys are generally conducted each year in the same lakes in which a walleye population estimate is done. Coordinating efforts in this way allows for year-long recovery in the creel of fish marked during spring population estimates, and subsequently allows for estimation angler exploitation of walleye.

WDNR creel surveys use a random stratified roving access design (Beard et al. 1997; Rasmussen et al. 1998). The surveys were stratified by month and day-type (weekend / holiday or weekday), and creel clerks conducted their interviews at random within these strata. Surveys were conducted on all weekends and holidays, and two to three randomly chosen weekdays per week. Angler effort was recorded twice daily based on instantaneous counts of angler activity.

Clerks counted the number of anglers and recorded effort, catch, harvest, and targeted species from anglers completing their fishing trip. Clerks also measured harvested fish and recorded any fin-clips observed. Only completed-trip interview information was used for analyses. Information from interviews was expanded over the appropriate stratum to provide an estimate of total effort, catch, and harvest of each species in each lake for the year. Creel data were summarized according to lake size, population recruitment source and current state regulations (Appendix C). In cases where lakes were connected (as either defined or undefined chains), creel clerks were not necessarily present at each individual lake on a given day; however, during the interview clerks collected information specific to lakes within the chain thereby enabling creel related estimates to be determined for individual lakes.

Angling effort was estimated for each stratum and summed across all strata to estimate total angler effort for each lake (angler hours/lake). Angler catch and harvest (hours/fish) rates were calculated for each game fish species encountered, giving an indication of average angler success and providing an index of the relative abundance of each species. Species-specific catch and harvest rates were calculated using only species-specific fishing effort. General catch and harvest rates were calculated using total angler effort, regardless of the species targeted.

Tribal and angler walleye exploitation rates were calculated in lakes where adult population estimates and creel surveys were conducted. Angler exploitation rates for adult walleye were calculated by dividing the estimated number of marked fish harvested by the total number of marked fish present in the lake (R/M; Ricker 1975). Although anglers can harvest immature walleye in some waters, only adult walleye exploitation rates were calculated. Tribal exploitation was calculated as the total number of adult walleyes harvested divided by the adult population estimate (C/N; Ricker 1975). Total adult walleye exploitation rates were calculated by summing angling and tribal exploitation.

Young-of-Year Walleye Surveys

Electrofishing for YOY walleyes was done after sunset in early autumn, beginning when water temperatures had fallen below 70° F. In most cases, the entire shoreline of a lake was electrofished and all sub-adult walleyes were examined and measured. Two-sample t-tests were used to test various hypotheses: that YOY density (fish/mile shocked) observed in natural and stocked model lakes was equal during 2015, that within each recruitment model the YOY density observed in 2015 did not differ from the average over the previous 25 years (1990-2014), and that in stocked model lakes YOY density did not differ between those lakes that were stocked and those that were not stocked during 2015. A general linear model was used to evaluate the effects of recruitment model (natural or stocked), year, and the year*model interaction on YOY walleye/mile over time. The interaction term was evaluated as indicative of significant trends over time in YOY walleye/mile for lakes within one or both recruitment models.

Hansen et al. (2004) updated a previous analysis by Serns (1982) to establish a relationship between the number of YOY walleyes collected per mile of shoreline electrofished and their lake-wide density (#/acre) where:

$$Density = 0.0345 * (Catch\ per\ mile)^{1.564}$$

The Hansen et al. (2004) metric of YOY density is used in evaluation of differences between various lake classes (e.g. Natural or Stocked recruitment model lakes). Use of the Hansen et al. metric for this purpose began with the 2006-2007 annual report; in years prior to 2006 the Serns index was used for the same purpose.

To assess any potential for natural reproduction, a portion of lakes classified as 'stocked', 'remnant', or where the primary component of year class strength is uncertain are selected to receive fish with an internal oxytetracycline (OTC) otolith mark. A proportion of the YOY fish sampled from these lakes in the fall were sacrificed to assess the relevant contribution of stocking to the number of surviving YOY fish and to provide evidence of any contribution by natural reproduction.

RESULTS AND DISCUSSION

Population Estimates and Densities

In 2015, spawning walleye populations were estimated in 27 lakes, ranging in size from 58 to 6,300 acres and representing a range of walleye recruitment categorizations and angler regulations (Table 1). Due to sample size restrictions, separate analyses were conducted to evaluate differences in spawner population size across (1) primary recruitment source (natural, stocked, or remnant; refer to Appendix B) and (2) angling regulations in place during the 2015-16 angling season. Statistical comparisons were made for spawner density (fish/acre) which provides a better comparative measure across lakes of varying size (relative to spawner abundance).

All population estimates were reviewed by a Technical Working Group (TWG) for reliability. Factors considered in determining reliability of estimates included numbers of fish marked and/or recaptured by sex and in total and coefficients of variation associated with derived estimates. In cases where population estimates are not deemed reliable by the TWG, estimates are rejected for use in setting safe harvest levels. For consistency across data groups, any population estimates rejected by the TWG for other purposes were also excluded from summaries and analyses presented in this report.

Table 1. Lakes surveyed by WDNR crews in spring 2015, with corresponding information on adult (spawning) walleye population abundance and density. Only lakes with population estimates accepted for use by the TWG are shown.

WBIC[1]	County	Lake	Acres	Size Limit (in)	Recruitment Code	Recruitment Model	Adult Pop. Estimate	Adult Density (#/Acre)
Natural Model Lakes								
2734000	Bayfield	Atkins	176	Slot	C-NR	Natural	156	0.89
2152800	Chippewa	Lake Wissota	6300	Slot	NR	Natural	8389	1.33
494200	Langlade	Rose	112	18	C-NR	Natural	104	0.93
1516000	Lincoln	Jersey City Flowage	404	Slot	NR	Natural	2115	5.24
1523600	Oneida	Bearskin	400	Exempt	NR	Natural	3571	8.93
1586600	Oneida	Spider	123	Slot	NR	Natural	348	2.83
2485700	Polk	North Pipe	58	18	NR	Natural	82	1.41
2391200	Sawyer	Grindstone	3111	Slot	NR	Natural	7383	2.37
2393500	Sawyer	Sissabagama	719	18	C-NR	Natural	1162	1.62
1469100	Taylor	Rib	320	Slot	C-NR	Natural	219	0.68
2339900	Vilas	Escanaba	293	28	NR	Natural	2968	10.13
716800	Vilas	Kentuck	958	Slot	C-NR	Natural	2073	2.16
1592400	Vilas	Plum	1033	Slot	NR	Natural	2899	2.81
1018500	Vilas	Snipe	239	Slot	NR	Natural	2232	9.34
2106800	Washburn	Long	3290	18	C-NR	Natural	8481	2.58
Stocked Model Lakes								
2897100	Bayfield	Diamond	341	Slot	C-ST	Stocked	435	1.28
2747300	Douglas	Upper St Croix	855	Slot	C-ST	Stocked	1585	1.85
2303500	Iron	Long	396	Slot	C-ST	Stocked	385	0.97
973000	Oneida	Bolger	119	Slot	C-ST	Stocked	547	4.60
1542300	Oneida	Kawaguesaga	670	C/R	C-ST	Stocked	866	1.29
1542400	Oneida	Minocqua	1360	C/R	C-ST	Stocked	1305	0.96
1618100	Oneida	Thunder	1768	Slot	C-ST	Stocked	1167	0.66
1542700	Oneida	Tomahawk	3392	C/R	C-ST	Stocked	2520	0.74
2490500	Polk	Pipe	284	18	C-ST	Stocked	197	0.69
2423000	Sawyer	Ghost	372	Slot	ST	Stocked	790	2.12
2316600	Vilas	Dead Pike	297	18	C-ST	Stocked	166	0.56
1596300	Vilas	Little St Germain	980	Slot	C-ST	Stocked	2586	2.64

1 - WBIC is a Water Body Identification Code unique to each lake.

Analysis of variance indicated that differences in spawner density existed between lakes with varying harvest regulations (General Linear Model, P<0.01). Pairwise comparisons showed significant differences in spawner density between lakes with 18 and 28" minimum size limits, and between those with 28" minimum and 'catch and release only' regulations (Tukey Kramer, P<0.05 in both comparisons). These differences, although statistically significant, may have little true biological significance; The single lake sampled with a 28" minimum size restriction was Escanaba Lake is a research lake which has historically maintained a high-density walleye population, and Catch and Release Only and 18" minimum regulations are generally used to facilitate rehabilitation efforts in lakes with depleted populations.

There is no statistically significant trend in walleye spawner density in natural-model lakes (GLM, P=0.43) in the Ceded Territory since 1995[4] (Figure 6). A significant downward trend in density of stocked-model walleye waters since 1995 was noted (GLM, Slope=-.052, P=0.013; Figure 7).

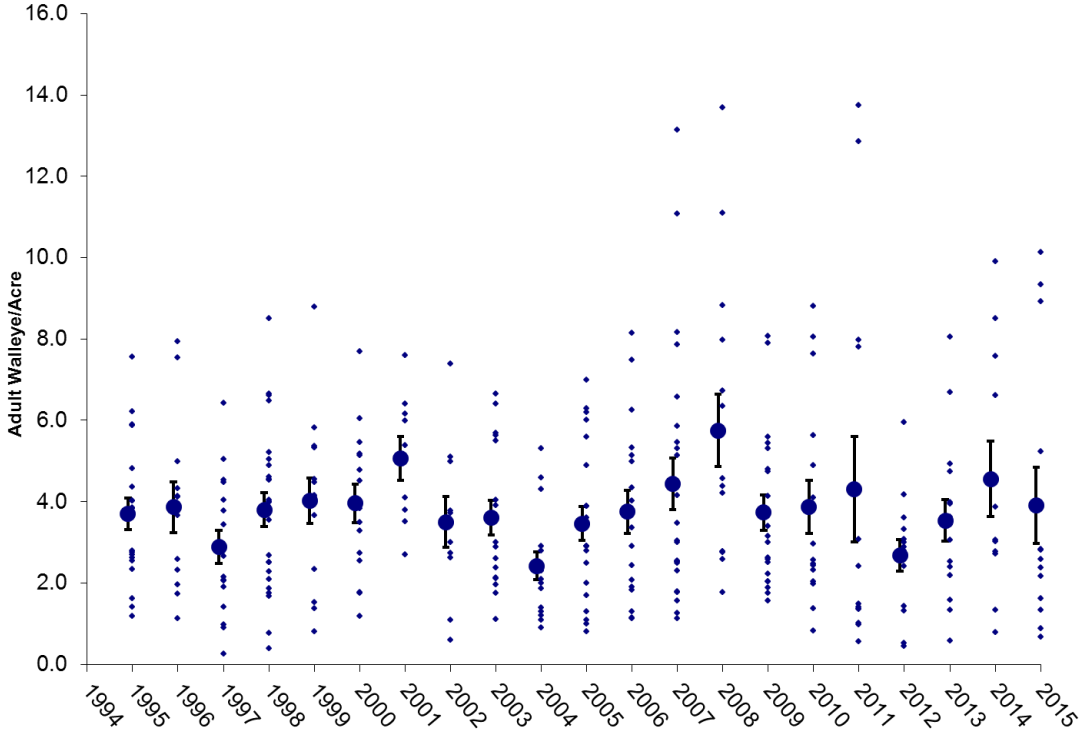

Figure 6. Adult walleye population density estimates recorded in Wisconsin Ceded Territory Lakes with populations sustained primarily by natural reproduction, 1995 – 2015. Small circles represent individual lakes; large circles represent yearly means (±SE).

[4] Data prior to 1995 was excluded due to a difference in the protocol used to select lakes for assessment (Hewett No Date)

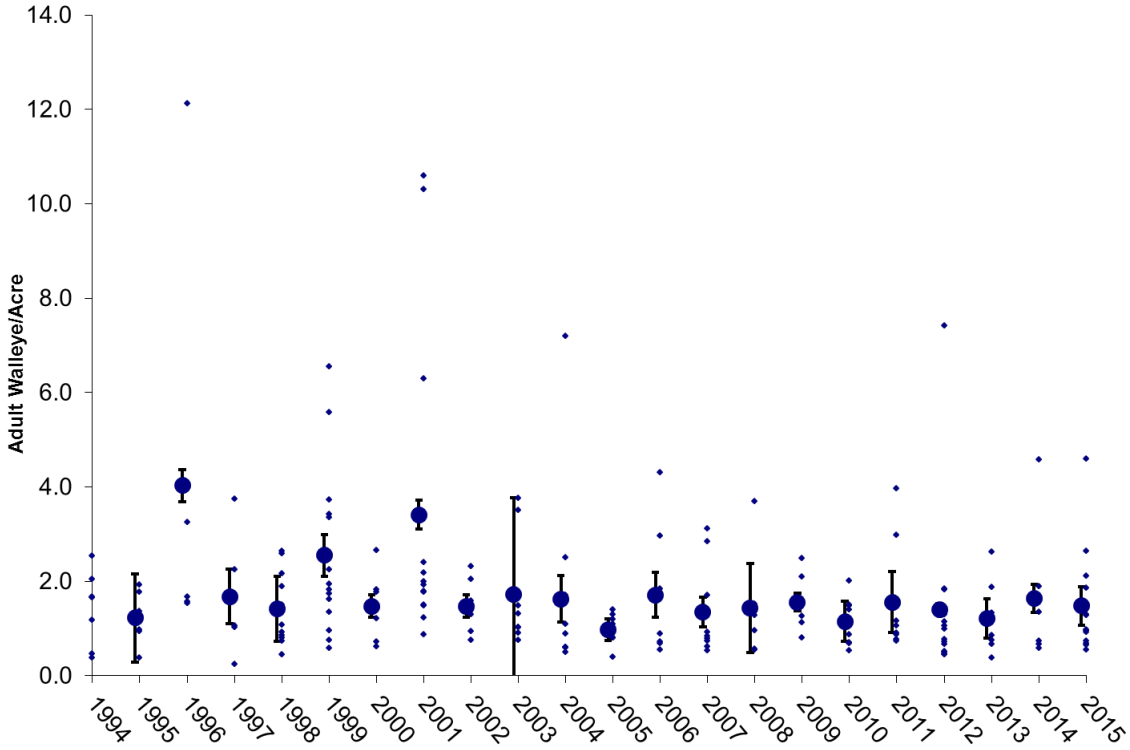

Figure 7. Adult walleye population density estimates recorded in Wisconsin Ceded Territory Lakes with populations sustained primarily by stocking, 1995 – 2015. Small circles represent individual lakes; large circles represent yearly means (±SE).

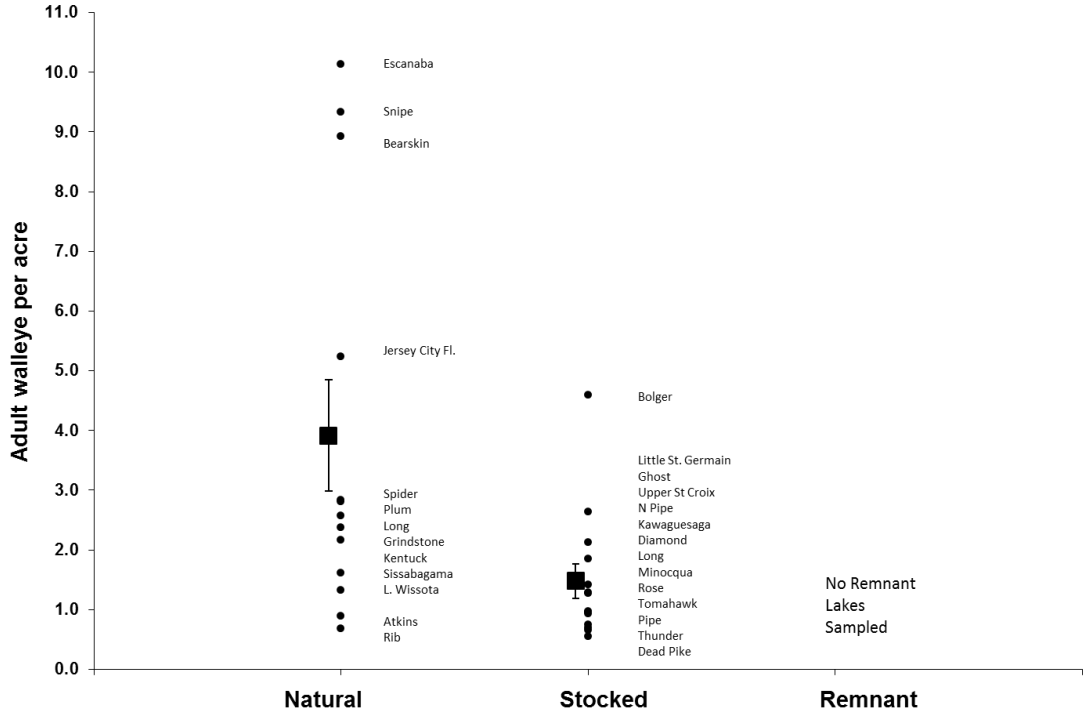

Figure 8. Adult walleye density estimates for lakes sampled by WDNR in spring 2015 based on primary population recruitment source.

Spawning Adult walleye size structure

Spawning adult walleye populations were estimated for each lake by length class in both natural (Figure 9), stocked (Figure 10) production model lakes. Natural model lakes generally had higher walleye spawner densities than stocked model lakes, although the size structure sampled in stocked lakes tended to be larger relative to that in natural model lakes, with proportionately fewer adult fish <15" in length observed in stocked waters.

In natural model lakes spawning walleye abundance was highly variable although the size structure was typically dominated by 12-20" walleye; the exceptions to this were Bearskin and Snipe lakes that had substantial proportions of the adult population <12" in length (Figure 9). The natural model lakes sampled had overall densities ranging from <1 to just over 10 fish/acre. Four of 13 sampled lakes had walleye densities equal to or exceeding 5 fish/acre; the remaining 9 lakes sampled had walleye densities less than 3 fish/acre. Walleye spawning in the 7-11.9 inch category were very limited in relative abundance in most natural production lakes sampled. It is unclear if the limited abundance of small adult walleye in these waters is due to a lack of young fish recruiting into the population, fish simply not maturing at young ages (and smaller size), or some other factor.

In stocked model lakes spawning walleye abundance and size structures were less variable than that observed in natural model lakes (Figure 10). With the exception of Bolger (Oneida Co.; 4.6/acre) and Little St. Germain (Vilas Co.; 2.6/acre), walleye densities observed in stocked model lakes were less than 2.5 adult fish/acre. Despite lower fish densities than those observed in natural model lakes, stocked model lakes generally had a high percentage (e.g. >70%) of the spawning population made up of relatively large fish (>15") available for angler harvest under general statewide regulations. No remnant model lakes were sampled for adult walleye abundance and size structure during 2015.

Data were available for calculation of PSD and RSD-18 for 30 natural, 23 stocked, and seven remnant-model lakes sampled in 2015 (Table 2). In lakes where walleye regulations involve a 15" minimum size limit, calculating PSD as the percent of stock sized fish over 15" essentially makes this value a comparative tool to evaluate the percentage of harvestable fish across lakes.

There was no discernable pattern in walleye size structure noted in lakes with different recruitment classes during 2015. In natural model lakes observed PSD and RSD-18 values were highly

variable, with both PSD and RSDs ranging from 0 to 100 percent. In stocked model lakes observed PSD and RSD values showed slightly less variability than natural model lakes (32-100 percent and 11-100 percent, respectively). Remnant model lakes sampled in 2015 showed PSDs ranging from 13-100 percent and RSDs ranging from 0-100 percent (Table 2).

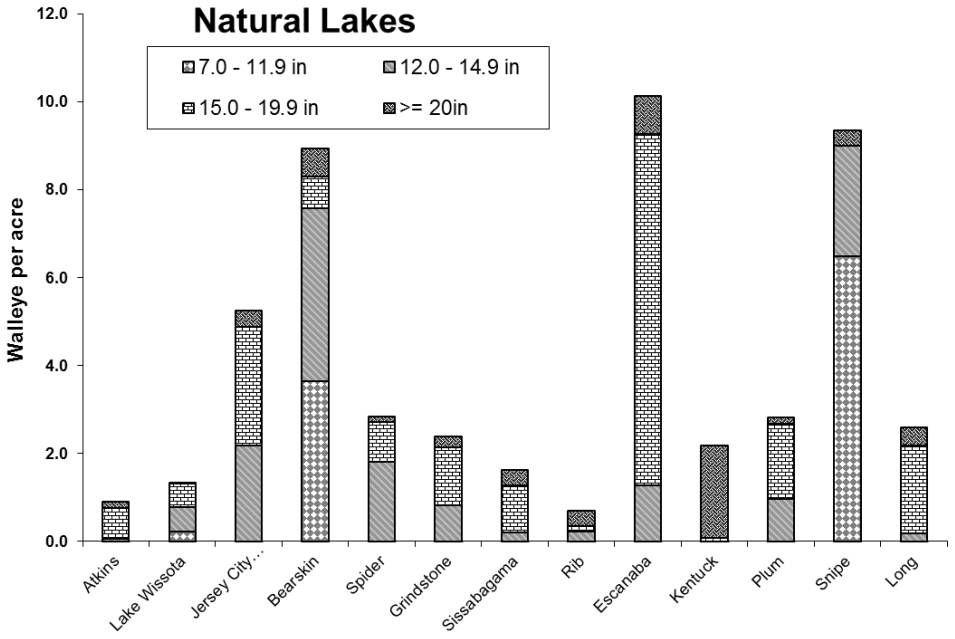

Figure 9. Size distribution of spawning walleye sampled in natural production model lakes during 2015.

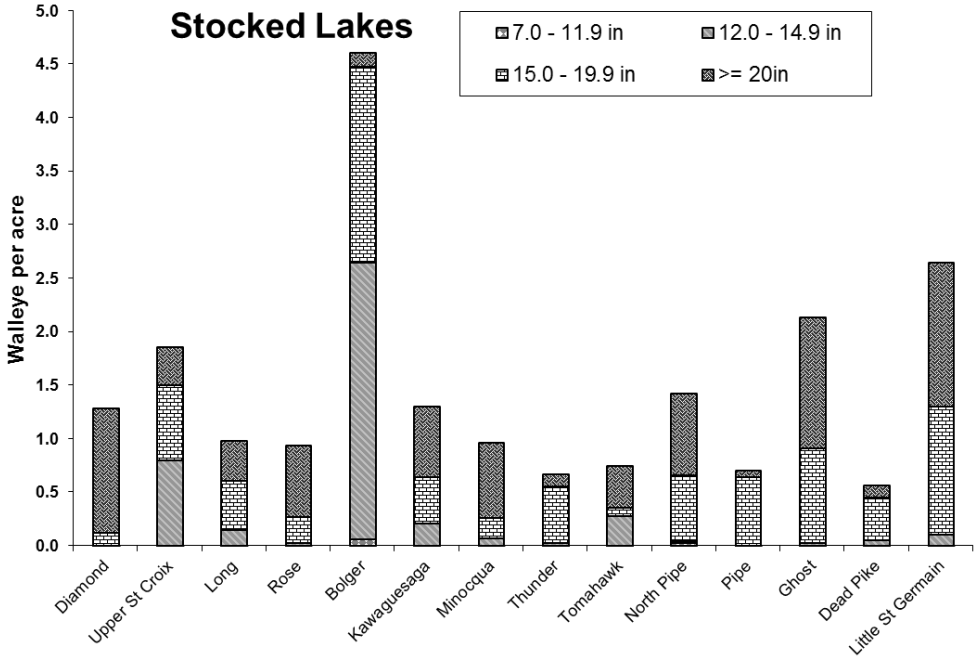

Figure 10. Size distribution of spawning walleye sampled in stocked production model lakes during 2015.

Table 2. Walleye Proportional and Relative Stock Density values for lakes surveyed in spring, 2015.

County	Lake	Acres	Recruitment Code	Walleye Regulation	PSD	RSD-18
Natural Recruitment Lakes						
Bayfield	Atkins Lake	176	C-NR	15”min, 20-24 Slot	84	52
Bayfield	Crystal Lake	111	C-NR	15”min, 20-24 Slot	100	100
Chippewa	Lake Wissota	6,300	NR	14-18” Slot	36	13
Iron	Gile Flowage	3,384	NR	1>14”	28	7
Iron	Turtle Flambeau Flowage	13,545	NR	None	22	5
Langlade	Rose Lake	112	C-NR	18”	100	97
Lincoln	Jersey City Flowage	404	NR	15”min, 20-24 Slot	45	15
Lincoln	Silver Lake	82	NR	15”min, 20-24 Slot	100	80
Marathon	Big Eau Pleine Reservoir	6,830	C-NR	15”min, 20-24 Slot	89	70
Marinette	Johnson Falls Flowage	68	C-NR	15”min, 20-24 Slot	86	71
Marinette	Sandstone Flowage	153	C-NR	15”min, 20-24 Slot	42	17
Oneida	Bearskin Lake	400	NR	1>14”	17	8
Oneida	Indian Lake	397	C-NR	15”min, 20-24 Slot	75	50
Oneida	Manson Lake	236	C-NR	15”min, 20-24 Slot	83	50
Oneida	Mercer Lake	257	NR	1>14”	41	14
Oneida	Spider Lake	118	NR	15”min, 20-24 Slot	34	3
Polk	North Pipe Lake	58	NR	18”	89	75
Price	Worcester Lake	100	NR	15”min, 20-24 Slot	100	99
Rusk	Big Falls Flowage	369	NR	1>14”	27	0
Rusk	Dairyland Reservoir	1,745	NR	1>14”	54	24
Rusk	Ladysmith Flowage	288	NR	1>14”	0	0
Rusk	Thornapple Flowage	268	NR	1>14”	25	4
Sawyer	Grindstone Lake	3,111	NR	14-18” Slot	64	27
Sawyer	Lake Chippewa	15,300	C-NR	15”min, 20-24 Slot	82	48
Sawyer	Sissabagama Lake	719	C-NR	18”	82	25
Taylor	Rib Lake	320	C-NR	15”min, 20-24 Slot	53	44
Vilas	Kentuck Lake	957	C-NR	15”min, 20-24 Slot	100	99
Vilas	Plum Lake	1,033	NR	1>14”	64	14
Vilas	Snipe Lake	239	NR	15”min, 20-24 Slot	6	6
Washburn	Long Lake	3,290	C-NR	18”	90	20

Table continued on next page.

Table 2. Continued.

County	Lake	Acres	Recruitment Code	Walleye Regulation	PSD	RSD-18
Stocked Recruitment Lakes						
Ashland	Meder Lake	135	C-ST	15”min, 20-24 Slot	79	58
Bayfield	Diamond Lake	341	C-ST	15”min, 20-24 Slot	90	63
Bayfield	Lake Owen	1,323	C-ST	18”	100	56
Douglas	Upper Saint Croix Lake	855	C-ST	15”min, 20-24 Slot	48	22
Iron	Bearskull Lake	75	ST	15”min, 20-24 Slot	98	59
Iron	Grand Portage Lake	144	ST	18”	100	72
Iron	Lake Of The Falls	338	C-ST	15”min, 20-24 Slot	77	30
Iron	Long Lake	396	C-ST	15”min, 20-24 Slot	64	32
Iron	Mercer Lake	184	ST	18”	90	69
Marathon	Pike Lake	205	ST	15”min, 20-24 Slot	100	100
Oconto	Maiden Lake	290	C-ST	18”	86	36
Oneida	Bolger Lake	119	C-ST	15”min, 20-24 Slot	62	11
Oneida	Carrol Lake	352	ST	15”min, 20-24 Slot	100	90
Oneida	Kawaguesaga Lake	670	C-ST	Catch/Release	82	59
Oneida	Minocqua Lake	1,360	C-ST	Catch/Release	88	68
Oneida	Thunder Lake	1,768	C-ST	18”	95	55
Oneida	Tomahawk Lake	3,392	C-ST	Catch/Release	32	28
Polk	Pipe Lake	284	C-ST	18”	96	25
Sawyer	Blaisdell Lake	356	C-ST	15”min, 20-24 Slot	57	32
Sawyer	Ghost Lake	372	ST	15”min, 20-24 Slot	94	73
Sawyer	Tiger Cat Flowage	819	ST	15”min, 20-24 Slot	100	100
Taylor	South Harper Lake	80	ST	15”min, 20-24 Slot	87	39
Vilas	Little Saint Germain Lake	980	C-ST	15”min, 20-24 Slot	72	54
Remnant Population Lakes						
Bayfield	Taylor Lake	94	REM	15”min, 20-24 Slot	38	1
Oconto	Reservoir Pond	417	O-ST	18”	100	94
Oneida	Mid Lake	215	NR-2	Catch/Release	67	0
Polk	Deer Lake	807	REM	15”min, 20-24 Slot	100	100
Price	Le Tourneau Lake	124	REM	15”min, 20-24 Slot	91	91
Sawyer	Smith Lake	323	O-ST	15”min, 20-24 Slot	71	0
Taylor	Mondeaux Flowage	416	O-ST	15”min, 20-24 Slot	13	13

In 2015, average size structure was generally smallest in natural model lakes although comparable size structures were observed in remnant model lakes; stocked model lakes had the largest size structure sampled (on average)(Figure 11). Mean PSDs for natural, stocked, and remnant model lakes were 58, 81 and 61, respectively. Mean RSD-18s for natural, stocked, and remnant model lakes were 35, 51 and 39, respectively. Differences in PSD and RSD-18 values across lakes in various recruitment models could be caused by any number of potential factors including, but not limited to, high or low recruitment levels of younger/smaller fish, differing angler regulations, harvest patterns and harvest

levels, or differences in survival or year class strength leading to differences in the relative abundance of quality (PSD, ≥15”) or preferred (RSD, ≥18”) sized fish in some lakes relative to others.

Mean annual PSD values in both natural and stocked model lakes are trending upward over time; the regression of natural model lakes over time has a slope of 0.8 ($p<0.01$); the regression of stocked model lakes has a slope of 0.7 ($P=0.03$; Figure 12). PSD and RSD values are highly correlated in both natural and stocked model waters over time ($r2>0.7$), so the trends presented for PSD values are very similar to those observed for RSD values. The implication of increasing trends in PSD (and RSD) is that, over time, both natural and stocked model lakes are seeing an increased percentage of larger walleye in the overall population. The observed trends in PSD values could be due to introduction and increased use of size selective fishing regulations over time (e.g. minimum or protective slot categories), declining recruitment of young fish into the population, increased growth rates, or other factors.

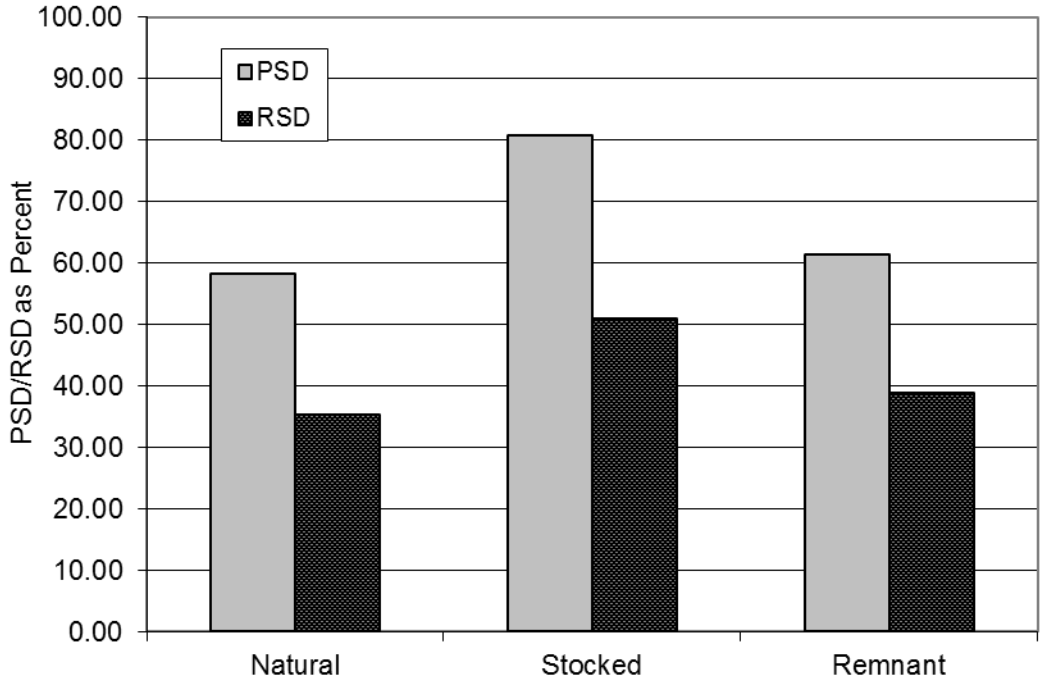

Figure 11. Comparison of mean PSD and RSD-18 values across lakes in various walleye recruitment models for lakes sampled in 2015.

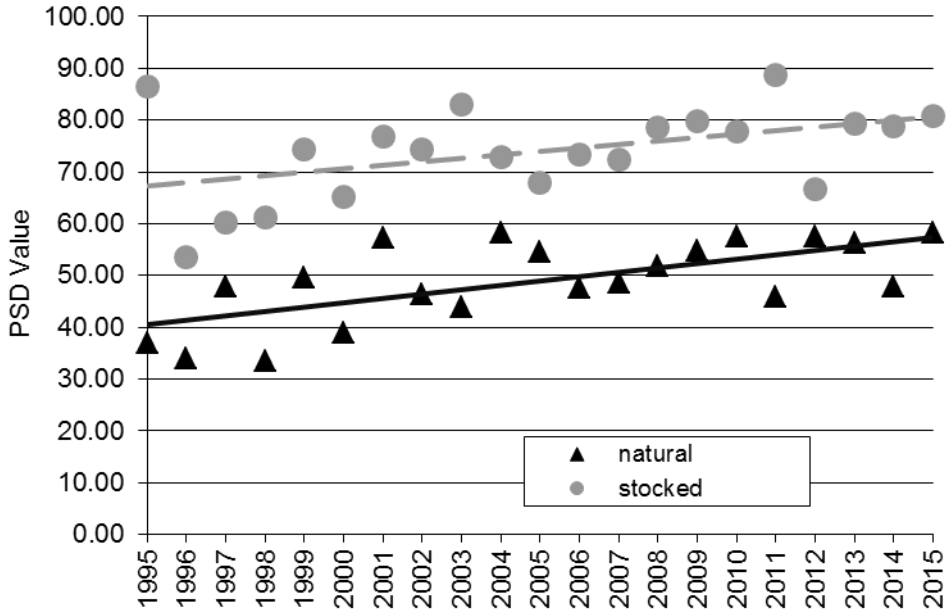

Figure 12. Trends in PSD values observed for walleye in Ceded Territory lakes since 1995.

Muskellunge Abundance

Adult muskellunge population and density estimates were completed in ten Ceded Territory waters during spring 2015 (Table 3). Population estimates completed in 2015 reflect 2014 population numbers because of the two-year mark-recapture time span used to derive estimates. Muskellunge densities were estimated in 6 lakes, and ranged between 0.06 and 1.48 adult fish/ acre and did not appear to be related to lake size or angler regulations (Table 3).

Bass Abundance

Largemouth bass population estimates were completed in five lakes in 2015; Smallmouth bass population estimates were completed in six lakes during 2015 (Table 4). Estimated largemouth bass density ranged from 7.1 fish per acre in Minocqua Lake to 10.1/acre in Kawauguesaga Lake and Pipe/N. Pipe lakes (Table 4). The size structure of largemouth bass populations in all lakes was dominated by fish less than 14" in length; Little St. Germain had the highest observed proportion (~25%) of largemouth bass greater than 14" in length (Figure 13). Smallmouth bass density was lower than that observed for largemouth bass and ranged from 0.7 – 4.1 adult fish per acre (Plum and Smoky lakes, Vilas Co., respectively) during 2015 (Table 4), although observed size structure of smallmouth bass populations sampled were generally larger than those of largemouth bass; Figure 13).

Table 3. Adult muskellunge population estimates completed in 2015 in the Wisconsin Ceded Territory. Regulations presented are for 2015.

County	Lake	Angler Regulation (inches)	Acres	Minimum length in PE (inches)		Adult PE	CV(%)	Total per acre
				Male	Female			
Ashland	Day	28	578	21.0	24.0	855	9.9	1.48
Barron	Rice	50	859	26.5	26.5	260	18.9	0.30
Oneida	Two Sisters	40	719	29.5	30.0	45	30.4	0.06
Oneida	Squirrel	40	1,317	30.0	30.0	109	38.3	0.08
Vilas	Escanaba	40	293	29.5	30.0	70	32.2	0.24
Vilas	Kentuck	40	958	28.0	30.0	430	11.5	0.45

Table 4. Largemouth and Smallmouth bass population estimates for lakes sampled in the Wisconsin Ceded Territory in spring 2015.

County	Lake	Acres	Angler Regulation	Total PE	CV(%)	Total /acre	8.0-13.9" /acre	14.0-17.9" /acre	18.0"+ /acre
Largemouth Bass									
Langlade	Rose	112	14" Minimum	1,086	19.7	9.7	9.4	0.2	0
Oneida	Kawaguesaga	670	No Minimum	6,754	18.9	10.1	9.3	0.7	0
Oneida	Minocqua	1,360	No Minimum	9,709	15.9	7.1	6.3	0.8	0.1
Polk	Pipe+N. Pipe	342	No Minimum	3,442	12.5	10.1	9.5	0.5	0.1
Vilas	Little St. Germain	980	14" Minimum	7,791	19.1	8.0	6.1	1.9	0
Smallmouth Bass									
Langlade	Rose	112	14" Minimum	293	28.6	2.6	2.2	0.4	0.0
Oneida	Bearskin	400	18" Min., 1-Bag	578	25.9	1.4	0.9	0.4	0.2
Vilas	Kentuck	958	18" Min., 1-Bag	1,963	33.3	2.1	1.0	0.8	0.3
Vilas	Pallette	180	22" Min., 1-Bag	379	33.8	2.1	1.5	0.4	0.2
Vilas	Plum	1,033	18" Minimum	713	15.2	0.7	0.1	0.3	0.2
Vilas	Smoky	610	14" Minimum	2,517	21.3	4.1	3.8	0.3	0.0

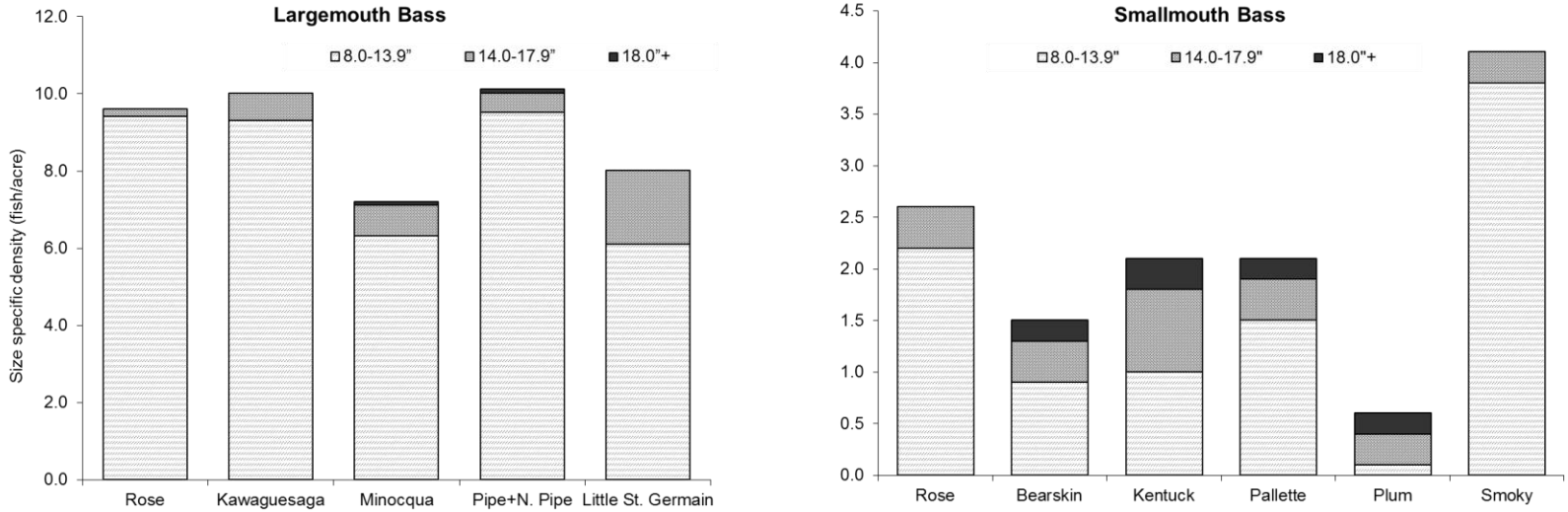

Figure 13. Large- and smallmouth bass population densities (fish ≥ 8.0") by size range for lakes sampled in the Wisconsin Ceded Territory in spring 2015.

Creel Surveys

In 2015-2016 (May through March), creel surveys were conducted for 13 waters in which walleye population estimates were made during spring 2015 (Appendix C). Creel surveyed lakes ranged in size from 119 to 3,290 acres (Bolger Lake-Oneida Co. and Long Lake-Washburn Co., respectively) and were located across six counties within the Ceded Territory.

Overall Angler Effort

From 1995 through 2015 total angler effort has been variable but no trend has been observed across all ceded territory lakes monitored [$F(1; 403) = 0.12$, $P = 0.73$]. This finding is consistent with other studies and evaluations on angling pressure in Ceded Territory lakes (Cichosz 2010, Cichosz 2009, Hansen 2008, Deroba et al. 2007, Hennessy 2005; Figure 14). Since 1995 when random lake selection began, mean total angler effort has been significantly lower in large lakes (≥500 acres; 27.1hours/ acre) than in small lakes (<500 acres; 35.2hours/ acre; t-test (unequal variances) $t = -3.28$, $df = 330$, $P < 0.01$). In 2015-16 the mean total angler effort per acre in large lakes (7 lakes, 35.1 hours/acre) was higher than that in small lakes (6 lakes, 22.2 hours/acre) although that difference was not statistically relevant (t-test equal variances, $t = 0.89$, $df = 11$, $P = 0.39$).

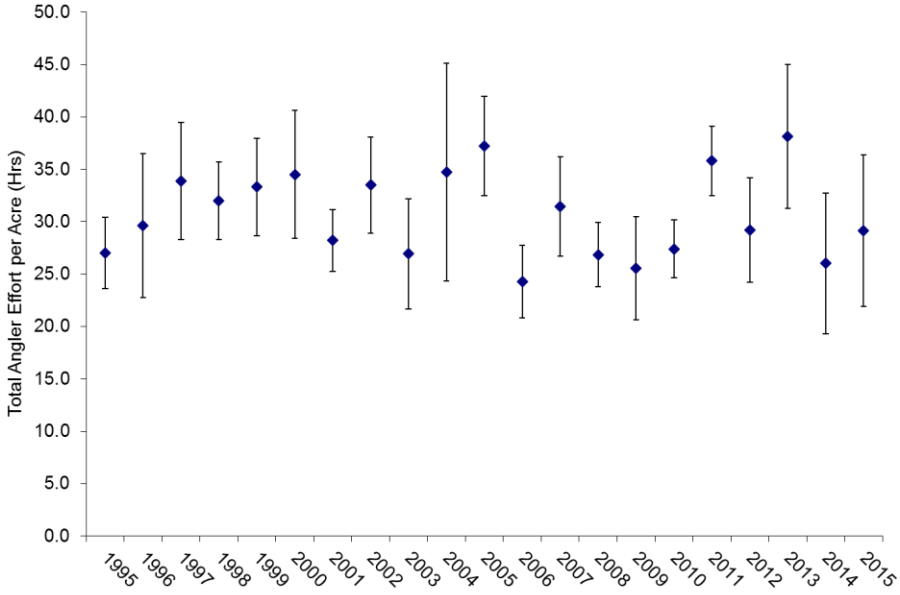

Figure 14. Average total angler effort per acre (±SE) in Wisconsin Ceded Territory lakes where WDNR conducted creel surveys, 1995-2015.

Walleye Effort, Catch and Exploitation

Directed effort for walleye averaged 7.3 hours per acre across lakes during the 2015-16 angling season; Directed effort is defined as hours reported by anglers fishing for a specific species. The majority (8) of creel surveys in 2015-16 were in lakes dominated by natural reproduction, with slightly less in those dominated by stocking (5); No creel surveys were conducted in lakes with remnant walleye populations. No significant difference was found in directed fishing effort for walleye between Natural- 7.48 hours/ acre) and Stocked-model lakes (7.07 hours/ acre; t-test (equal variances) t = 0.13, df = 11, P = 0.90) surveyed during the 2015-16 angling season. Similarly, no significant difference was found in directed fishing effort for walleye between large (≥500 ac., 7.03 hours/ acre) and small lakes (<500 ac., 7.67 hours/ acre; t-test (equal variances) t = -0.21, df = 11, P = 0.84) surveyed during the 2015-16 angling season. Since 1995, directed angler effort (hours/acre) for walleye has shown a statistically significant downward trend [Slope = -0.25, F(1;403) = 20.5, P < 0.01), although visually the statistical significance seems driven by high observed value in 1996 and the abnormally low levels seen in 2012, 2014 and 2015 rather than by a consistent, long term trend across the entire period of record (Figure 15).

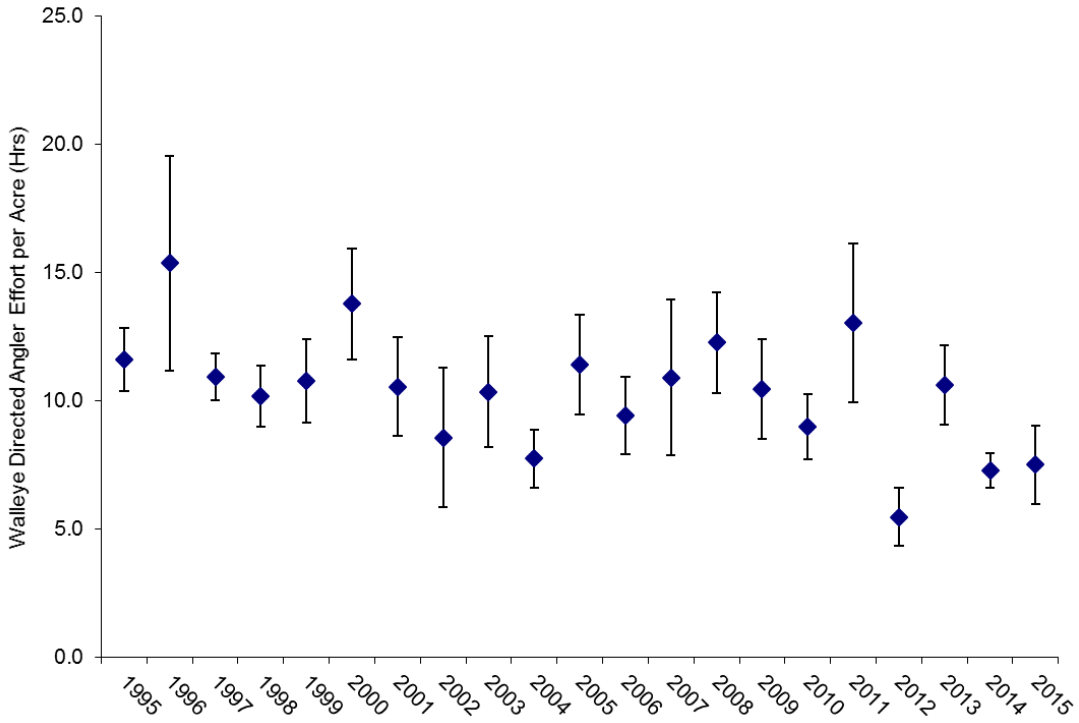

Figure 15. Directed angler effort per acre (±SE) for walleye in Wisconsin Ceded Territory lakes where WDNR conducted creel surveys, 1995-2015.

In 2015-16 the mean specific catch rates (SCR) was 0.27 walleye/hour of directed effort (1 fish per 3.7 walleye angling hours). In lakes with naturally sustained or stocked populations, respectively, mean SCRs were 0.34 walleye per hour (2.9 hours directed effort/ walleye caught; n=8) and 0.15 walleye/ hour (1 fish per 6.7 hours of directed effort; n=5). Specific harvest rates averaged 0.05 walleye/hour of directed effort (20 hours directed effort/walleye harvested) and ranged between 0.00 and 0.09 walleye/hour for individual lakes surveyed (Appendix C). Based on creel survey results, anglers harvested approximately 23% of all walleye caught during the 2015-16 season; this is moderately below the average percentage estimated across all lakes creeled between 1995 and 2014 (29.5%).

Specific catch rate of walleye between 1995 and 2015 was highly variable, with no statistically relevant trend in SCR observed [Figure 16; Slope = 0.00, F(1, 403) = 0.01, P = 0.93]. Similarly, no discernible trend was noted for specific harvest rate by year since 1995 [F(1, 403) = 0.12, P = 0.73] for walleye in the Wisconsin Ceded Territory (Figure 16).

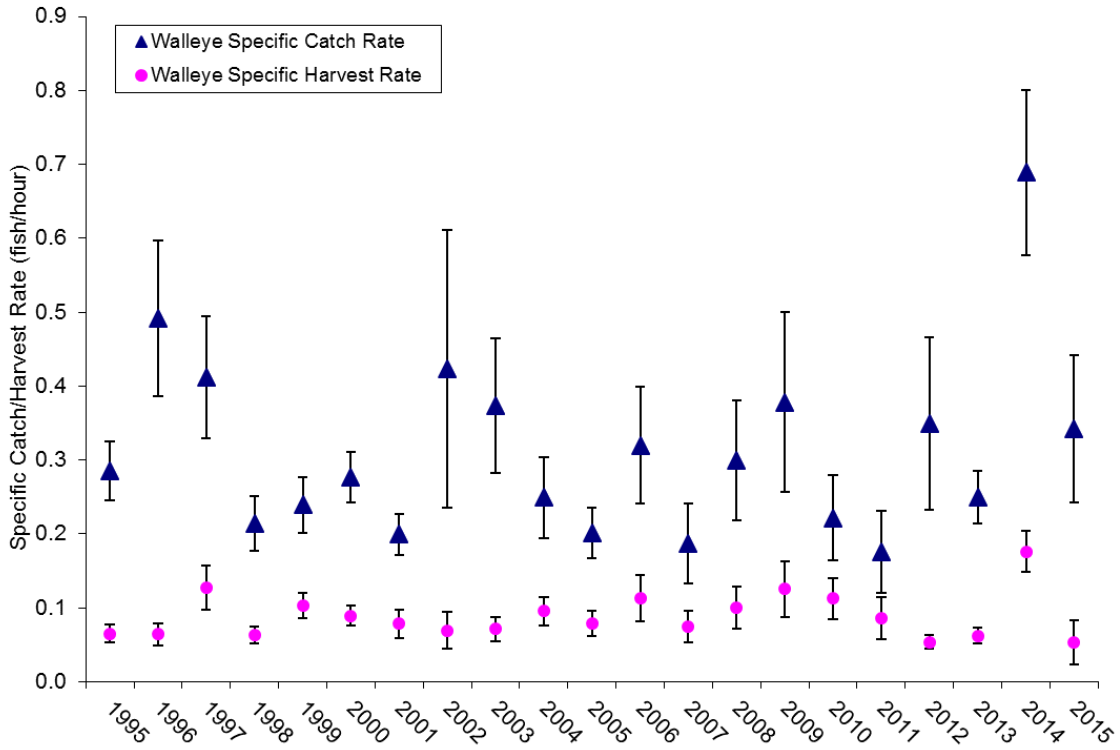

Figure 16. Specific catch and harvest rates (±SE) for walleye in surveyed lakes in the Wisconsin Ceded Territory, 1995-2015. Specific catch or harvest rate is number of walleye caught or harvested divided by time spent fishing specifically for walleye.

Walleye exploitation rates were estimated for 13 lakes during 2015-16 (Table 5; Appendix F). Estimates of angler walleye exploitation ranged from 0% to 24.1%; Angler exploitation of walleyes in various size classes was variable with exploitation of walleye 14" or longer ranging from 0% to 18.0% whereas that of walleyes 20" or longer ranged from 0.0% to 35.0%. Tribal exploitation of walleyes ranged from 0.0% to 26.2% across all lakes, and tribal exploitation rates exceeded those of anglers in seven of the 13 surveyed lakes. Total (angler + tribal) exploitation rates ranged from 0.0-50.2%, averaging 11.0% across lakes monitored during the 2015-16 harvest period. Based on 2015-16 survey results angler exploitation of walleye populations was estimated as zero in two of 13 lakes surveyed; five of the 13 lakes surveyed incurred no tribal exploitation of walleye.

Safe harvest limits are set so that over time there is less than a 1-in-40 chance that exploitation will exceed 35% in any given year on any single lake. In 2015-16 total walleye exploitation was below 35% in 12 of 13 lakes evaluated, with Bearskin Lake (Oneida Co.) being the exception with 50.2% total walleye exploitation (Table 5).

Table 5. Adult walleye exploitation rates by lake and harvest type for 2015, with comparison to 1995-2014 mean exploitation rates.

County	Lake	Acres	Angler exploitation	Angler expl. ≥14"	Angler expl. ≥20"	Tribal expl.[1]	Total adult exploitation
Bayfield	Diamond	341	0.065	0.065	0.037	0.002	0.067
Bayfield	Siskiwit	330	0.030	0.056	0.000	0.000	0.030
Iron	Long	396	0.144	0.152	0.000	0.000	0.144
Oneida	Bearskin	400	0.241	0.180	0.178	0.262	0.502
Oneida	Bolger	119	0.041	0.057	0.000	0.000	0.041
Oneida	Thunder	1835	0.000	0.000	0.000	0.000	0.000
Sawyer	Grindstone	3111	0.025	0.027	0.143	0.037	0.062
Sawyer	Sissabagama	719	0.052	0.054	0.350	0.120	0.172
Vilas	Kentuck	957	0.012	0.012	0.013	0.071	0.084
Vilas	Little St. Germain	980	0.075	0.078	0.058	0.000	0.075
Vilas	Plum	1108	0.020	0.024	0.198	0.121	0.141
Vilas	Snipe	239	0.000	0.000	0.000	0.007	0.007
Washburn	Long	3290	0.034	0.035	0.105	0.077	0.110
2015 mean			**0.057**	**0.057**	**0.083**	**0.054**	**0.110**
1995-2014 mean			**0.087**	**0.105**	**0.117**	**0.045**	**0.133**

1 Tribal harvest data used to calculate tribal exploitation provided by the Great Lakes Indian Fish and Wildlife Commission (Ngu 1995 and 1996, Krueger 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, Krueger and Brost 2010, White 2012).

Muskellunge Effort and Catch

Of the 13 lakes surveyed in 2015-16, 10 are classified as musky waters. Creel clerks recorded at least one musky caught from each of the 10 classified musky lakes surveyed, and no musky caught from any unclassified waters; Appendix C. For the purpose of analyses and summarization of catch and effort, lakes not classified as musky waters and those without directed fishing effort were excluded even if limited numbers of musky had been reported in creel surveys.

In general, the "action classification" assigned to lakes (WDNR 1996) is a better predictor of musky catch and effort than recruitment source or lake size to describe variability in catch and effort (Simonson and Hewett 1999). In all cases, the 2015 estimates of angler catch, catch rate, and directed effort were not significantly different than the prior 10 year averages for each lake classification (Analysis of variance, Proc GLM; Table 6).

Trends in directed effort and catch rates of muskellunge were evaluated since 1995; Trend evaluations were not done independently for each muskellunge 'action class' since limited or no data was available for some year/action class categories. There has been no observed trend in muskellunge catch rates [GLM; $F(1, 310) = 0.19$, $P = 0.66$] or directed fishing effort [$F(1, 314) = 0.89$, $P = 0.347$] in the Ceded Territory since 1995 (Figure 17).

Table 6. Comparison of muskellunge catch and effort rates in 2015 and average values from 2005-2014, by musky lake classification.

Class	Class Description	Lakes sampled	Angler catch/ acre	Specific catch rate (fish/ hour)	Directed effort (hours/ acre)
2015					
A1	Trophy waters	5	0.13	0.01	5.10
A2	Action waters	3	0.81	0.05	12.41
B	Intermediate action/ size	2	0.28	0.03	6.98
C	Low importance	0	---	---	---
Total		10	0.28	0.03	7.67
2005-2014 Averages (Prior 10 years)					
A1	Trophy waters	43	0.18	0.03	4.86
A2	Action waters	73	0.53	0.04	11.11
B	Intermediate action/ size	19	0.20	0.03	4.46
C	Low importance	8	0.02	0.01	0.57
Total		145	0.33	0.03	7.65

* Difference between 2015 and prior 10 year average is statistically significant ($p<0.05$).

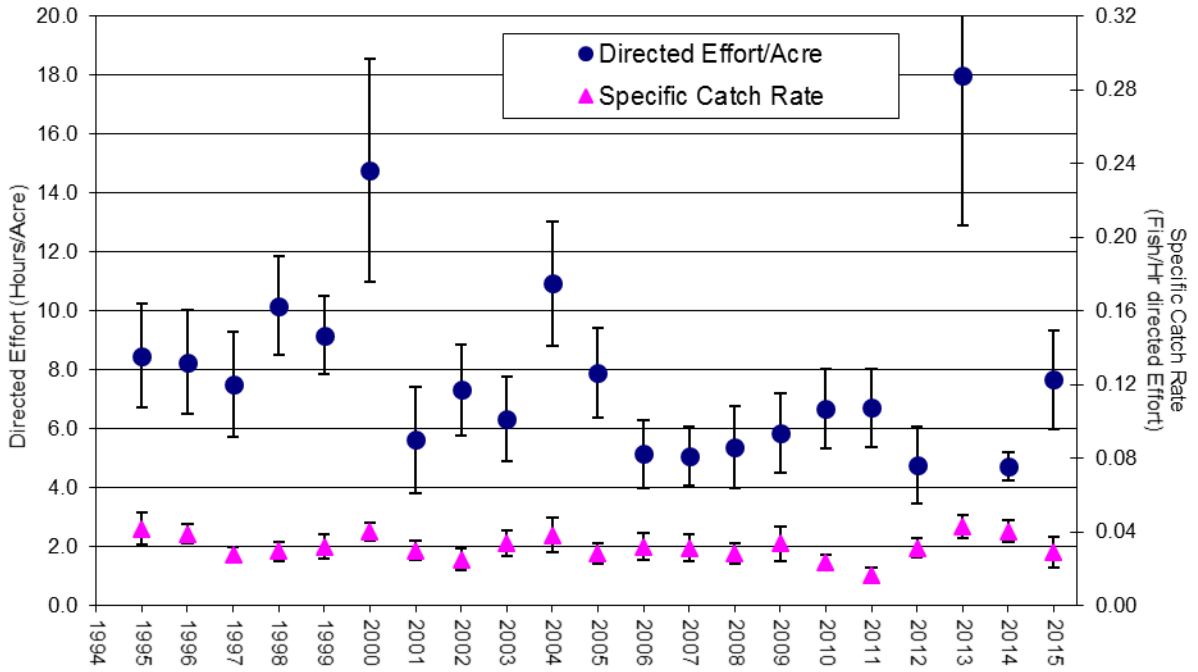

Figure 17. Directed angler effort per lake surface acre and specific catch rate (±SE) for muskellunge in surveyed lakes in the Wisconsin Ceded Territory, 1995-2015.

Northern Pike Effort and Catch

Directed effort and catches of northern pike were recorded in each of 13 lakes surveyed in 2015-16 (Appendix C). Of the 13 lakes with northern pike effort and catch, six were smaller than 500 acres and seven were 500 acres or larger (Table 7). There were no significant differences between large and small lakes with regard to directed angler effort, specific catch or harvest rate, or angler catch or harvest per acre of northern pike during the 2015-16 angling season (Table 7). In small lakes, significant differences were found between 2015-16 creel values and the corresponding prior 10 year averages (2005 -2014) for northern pike directed effort/acre, catch/acre, and harvest/acre; for large lakes, no significant differences between current and prior 10 year averages were noted for any creel statistic evaluated (Table 7).

Estimates of angler effort directed toward northern pike have been highly variable across years (Figure 18), and since 1995 there has not been a statistically detectable trend in directed angler effort for northern pike [$F(1, 381) = 0.82$, $P = 0.37$]. Similarly, specific catch rates of northern pike show no significant trend since 1995 [$F(1, 381) = 2.31$, $P = 0.13$].

Table 7. Mean estimates calculated from 2015 and 2005-2014 northern pike creel survey data.

Year	Lake Size	N	Catch/ Acre	Angler Harvest/ Acre	Specific Catch Rate	Specific Harvest Rate	Directed Effort/ Acre
2015*							
	< 500 acres	6	0.93	0.11	0.31	0.02	1.90
	> 500 acres	7	2.45	0.35	0.31	0.07	5.57
	All lakes	13	1.75	0.24	0.31	0.05	3.88
2005-2014**							
	< 500 acres	88	2.61**	0.39**	0.25	0.05	5.30**
	> 500 acres	103	1.84	0.27	0.19	0.05	3.34
	All lakes	191	2.20	0.32	0.22	0.05	4.24

* Small lake values did not differ significantly from corresponding large lake values observed during the 2015-16 angling season for any variable shown (T-test, p>0.05).
** 10 yr. averages differ significantly from corresponding 2015-16 annual values (T-test, p<0.05).

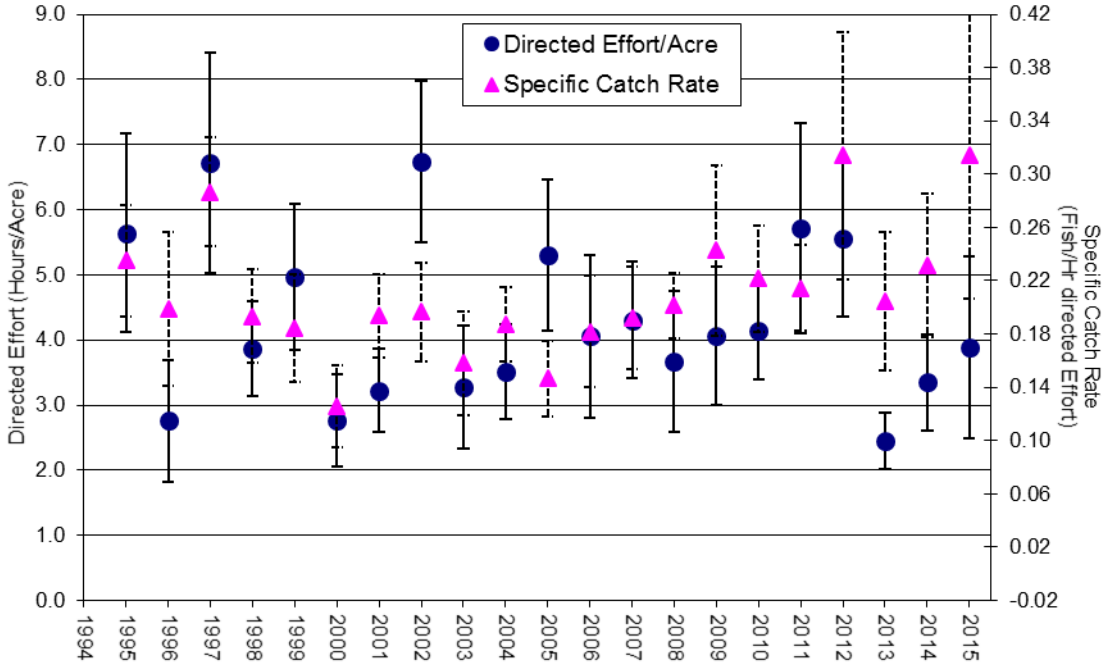

Figure 18. Directed angler effort per lake surface acre and specific catch rate (±SE) for northern pike in surveyed lakes in the Wisconsin Ceded Territory, 1995-2015.

Largemouth Bass Effort and Catch

Directed angler effort toward, and/or catches of largemouth bass were reported in each of the 13 lakes surveyed in 2015-16 (Long Lake, Iron Co. had catch but no directed effort; Bearskin Lake, Oneida Co. had directed effort but no largemouth bass catch; Appendix C). Of surveyed lakes with largemouth bass catch, five were smaller than 500 acres and seven were 500 acres or larger (Table 8). In 2015-16 there were no significant differences between large and small lakes with regard to angling effort directed toward largemouth bass, angler catch or harvest numbers or specific catch or harvest rates (T-tests, equal variance, P >0.05) related to largemouth bass. None of the creel statistics evaluated during 2015-16 differed from the respective prior 10 year averages for large lakes, small lakes or all lakes combined (T-tests, P >0.05; Table 8).

Since 1995 there has been a statistically relevant increase in both directed angler effort [Slope = 0.12, $F(1, 372) = 6.30$, $P = 0.01$] and specific catch rates [Slope = 0.019, $F(1, 372) = 26.70$, $P < 0.01$] in largemouth bass fishing in Wisconsin Ceded Territory lakes (Figure 19).

Table 8. Mean estimates calculated from 2015 and 2005-2014 largemouth bass creel survey data.

Year	Lake Size	N	Catch/ Acre	Angler Harvest/ Acre	Specific Catch Rate	Specific Harvest Rate	Directed Effort/ Acre
2015*							
Small	< 500 acres	6	3.08	0.08	0.38	0.03	3.43
Large	> 500 acres	7	6.27	0.45	0.39	0.03	8.29
	All lakes	13	4.80	0.27	0.39	0.03	6.05
2005-2014**							
Small	< 500 acres	86	5.38	0.31	0.46	0.03	5.80
Large	> 500 acres	103	6.12	0.33	0.51	0.03	4.42
	All lakes	189	5.78	0.32	0.49	0.03	5.05

* Small lake values did not differ significantly from corresponding large lake values observed during the 2015-16 angling season for any variable shown (T-test, p>0.05).
** No significant differences exist between 10 yr. averages and corresponding 2015-16 annual values (T-test, $p \geq 0.05$).

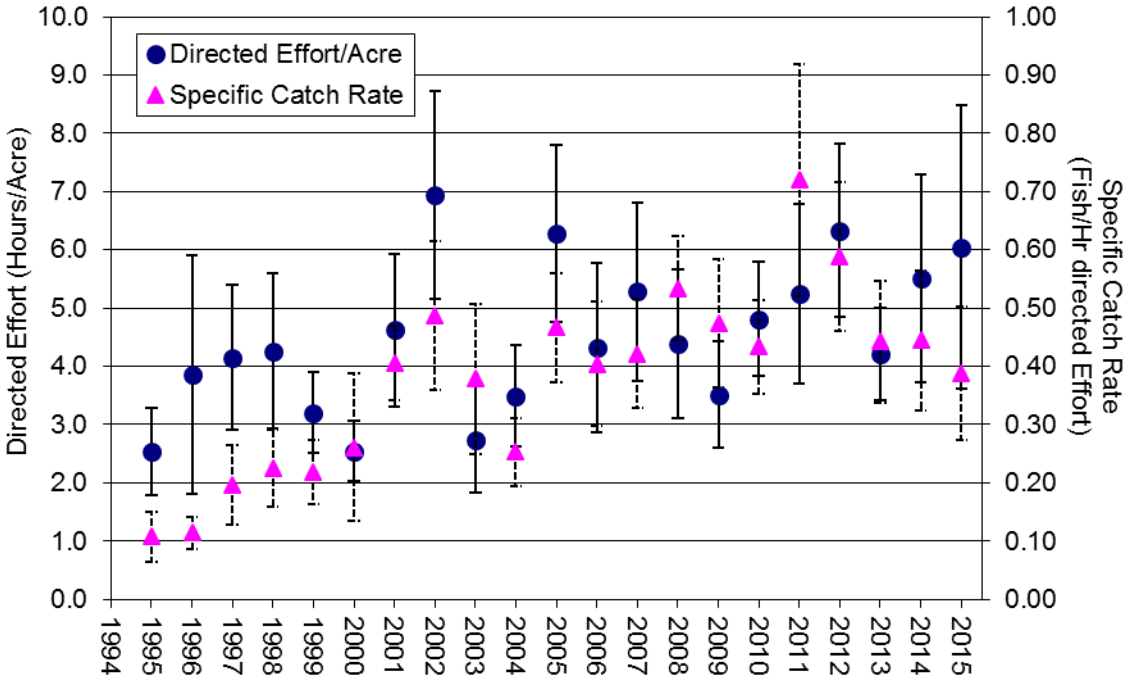

Figure 19. Directed angler effort per lake surface acre and specific catch rate (±SE) for largemouth bass in surveyed lakes in the Wisconsin Ceded Territory, 1995-2015.

Smallmouth Bass Effort and Catch

Each of the 13 lakes surveyed in the 2015-16 angling season had some level of angler effort directed toward smallmouth bass, and catches of smallmouth bass were reported in 12 lakes surveyed (Appendix C). Thunder Lake (Oneida Co.) had directed angler effort nor catch of smallmouth bass reported. Of the lakes with smallmouth bass catch in 2015-16, six were classified as 'small' (<500 ac.) and six as 'large' (≥500 ac.; Table 9). There were no significant differences in smallmouth bass directed angler effort, catch/acre, specific catch rate, harvest/acre, or specific harvest rate (T-test, P>0.05) between large or small lakes in 2015-16 (Table 9). Similarly, there were no significant differences between creel statistics measured in 2015-16 and the corresponding 10 year average values (Table 9).

Both directed effort and specific catch rates of smallmouth bass anglers in the Ceded Territory have been variable over time. The average of directed effort in surveyed lakes during 2015-16 was higher than any year since 1995, although the average specific catch rate fell within the observed range of values in other years since 1995 (Figure 20). Since 1995 when a randomized lake selection process

was instituted there have been no statistically detectable trends in directed angler effort/acre [F(1, 367) = 0.00, P = 0.99] or specific catch rates [F(1, 367) = 1.48, P = 0.22] over time (Figure 20).

Table 9. Mean estimates calculated from 2015 and 2005-2014 smallmouth bass creel survey data.

Year	Lake Size	N	Catch/ Acre	Angler Harvest/ Acre	Specific Catch Rate	Specific Harvest Rate	Directed Effort/ Acre
2015*							
Small	< 500 acres	6	3.45	0.06	0.37	<0.01	5.40
Large	> 500 acres	7	2.21	0.07	0.35	0.01	7.64
	All lakes	13	2.78	0.06	0.36	<0.01	6.60
2005-2014							
Small	< 500 acres	84	1.35	0.03	0.30	<0.01	2.52
Large	> 500 acres	102	2.04	0.08	0.38	0.01	2.93
	All lakes	186	1.72	0.06	0.35	0.01	2.74

* No significant differences exist between large and small lakes for any parameter for the 2015-16 angling season (T-test, p>0.05).
** No significant differences exist between 10 yr. averages and corresponding 2015-16 annual values (T-test, p≥0.05).

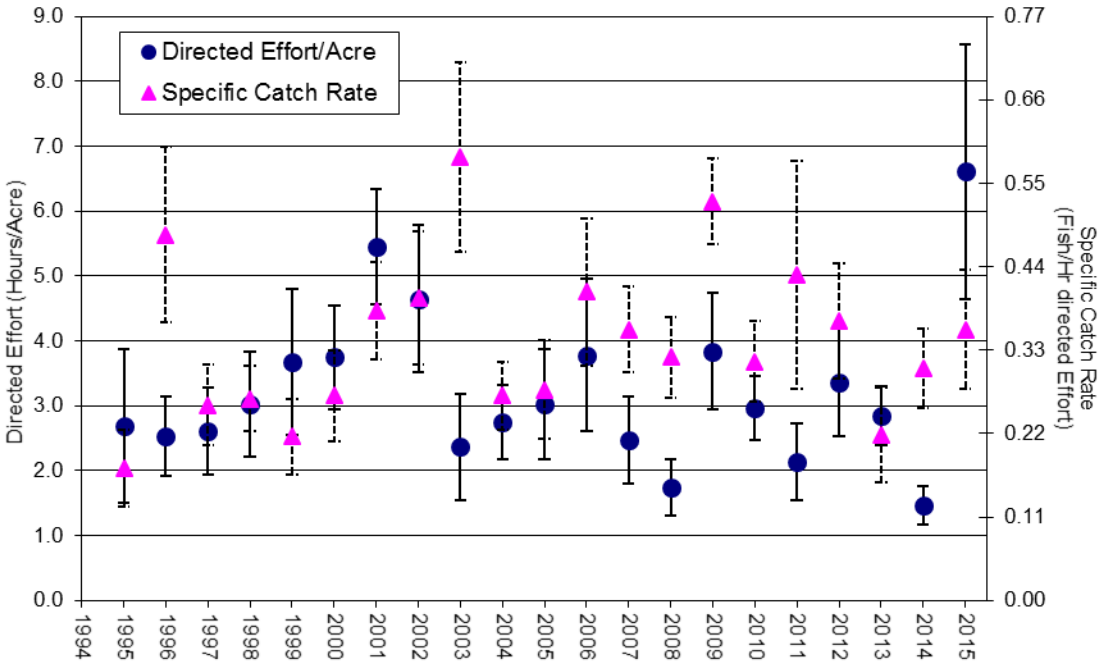

Figure 20. Directed angler effort per lake surface acre and specific catch rate (±SE) for smallmouth bass in surveyed lakes in the Wisconsin Ceded Territory, 1995-2015.

Safe Harvest

Safe harvest calculated for the 2015 harvest season was 90,978 walleye and 4,300 musky across the entire Wisconsin Ceded Territory (Table 10). Safe harvest of both walleye and musky has been shown to be highly correlated to the surface acreage of water found in each county (Linear regression, $r^2>0.9$; Cichosz 2009). For both walleye and musky, the greatest total safe harvest numbers for individual counties were observed in Vilas (21,704 walleye, 1,202 musky), Oneida (16,566 walleye, 845 musky), Sawyer (10,556 walleye, 537 musky) and Iron (7,371 walleye, 308 musky) counties. When totaled, safe harvest from these four counties accounted for 62 percent of overall walleye and 67 percent of overall musky safe harvest for the Wisconsin Ceded Territory during 2015. Safe harvest numbers for individual lakes are listed in Appendix G.

Table 10. Walleye and musky safe harvest levels and ranks by county for the 2015 harvest season.

County	Lake Acreage*	Total Calculated Safe Harvest		Ranks (1 = Greatest #)	
		Walleye	Musky	Walleye	Musky
Ashland	2,862	400	80	22	13
Barron	13,684	1,990	34	11	17
Bayfield	12,665	2,942	126	9	8
Burnett	11,184	1,670	100	13	10
Chippewa	14,466	4,567	143	5	7
Clark	320	21	4	26	24
Douglas	6,211	1,424	40	15	16
Dunn	1,752	611		19	
Eau Claire	2,571	768	29	17	19
Florence	2,198	329		24	
Forest	11,205	2,939	46	10	15
Iron	24,651	7,371	308	**4**	**4**
Langlade	4,800	467	33	20	18
Lincoln	16,379	4,205	170	6	6
Marathon	9,583	1,911	51	12	14
Marinette	3,361	701	17	18	23
Oconto	3,075	374	20	23	20
Oneida	59,990	16,556	845	**2**	**2**
Polk	11,480	928	82	16	11
Portage	74	4		27	
Price	9,556	3,146	207	8	5
Rusk	5,633	1,475	107	14	9
Sawyer	48,018	10,556	537	**3**	**3**
St. Croix	1,100	435	18	21	22
Taylor	4,132	267	20	25	20
Vilas	71,429	21,704	1,202	**1**	**1**
Washburn	14,758	3,217	81	7	12
Grand Total	**367,137**	**90,978**	**4,300**	**---**	**---**

* Sum of acreage for lakes with defined safe harvest of one or both species; does not include total county-wide lake acreage.

Walleye Young-of-Year Surveys

Young of the year (YOY) surveys provide an index of the abundance and survival of the current year class of walleyes from hatching or stocking to their first fall. These surveys provide fisheries managers with insight into potential adult population changes in the near future. Early indication of these potential changes allows fisheries managers to develop management strategies to accommodate expected changes in adult populations. Although YOY relative abundance gives some indication of possible future adult abundance it does not necessarily correspond directly, as survival to adulthood varies (Hansen et al. 1998).

During 2015 WDNR completed fall surveys on 165 different lakes in the Wisconsin Ceded Territory (Appendix E). Of the lakes sampled, 66 had walleye populations classified as sustained by naturally reproduction (recruitment codes NR, C-NR, or C-), 75 as sustained by stocking (ST or C-ST), and 21 as remnant or newly established populations (REM, O-ST, NR-2; Appendix B). Two lakes surveyed were classified as having no known walleye population (NONE/0). Water temperatures during 2015 YOY walleye surveys ranged from 50 - 74° F; mean and median water temperatures during YOY surveys were 64° and 65°F, respectively. Young-of-year walleye lengths ranged from 3.3 to 9.2 inches across all lakes and dates surveyed in 2015 (Appendix E).

Differences in mean YOY walleye density between natural and stocked recruitment categories was significant during 2015 (t-test-unequal variance, $t = 5.00$, $df = 104$, $P < 0.01$). Consistent with all previous years since 1990, lakes sustained primarily by natural reproduction had higher mean walleye YOY density (mean = 17.1/mile of shoreline shocked, range = 0.0–104.8) than lakes sustained by stocking (mean = 3.0/mile, range = 0.0–141.8) during 2015 (Figure 21). The mean YOY walleye abundance observed in natural recruitment lakes during 2015 (17.1/mile) was statistically dissimilar (t-test unequal variance, $P<0.01$) to the average across the previous 25 years studied (29.3/mile from 1990-2014). The mean YOY walleye abundance observed in stocked lakes during 2015 (3.0/mile) was statistically similar to that observed over the previous 25 years studied (5.1/mile from 1990-2014; t-test unequal variance, $t = -1.7$, $df = 105$, $P=0.09$; Figure 21).

It appears that within the Wisconsin Ceded Territory there may be region-wide annual effects on

walleye recruitment since mean recruitment varies dramatically from year to year when data from all lakes are combined (Figure 21); In the absence of an annual regional effect one might expect average annual recruitment values (as YOY/mile) for the entire region to be similar across years. Lack of recruitment in a given lake for one or more years is natural and not necessarily alarming. Sporadic recruitment is common for walleye populations both within and among individual lakes. It is common to have almost complete lack of recruitment in 25% or more of lakes with natural reproduction, and year class failures are even more common in lakes with populations maintained by stocking. Generally, successful recruitment occurs in a given lake every 3-4 years which may reduce competition between year classes of walleye (Li et al. 1996).

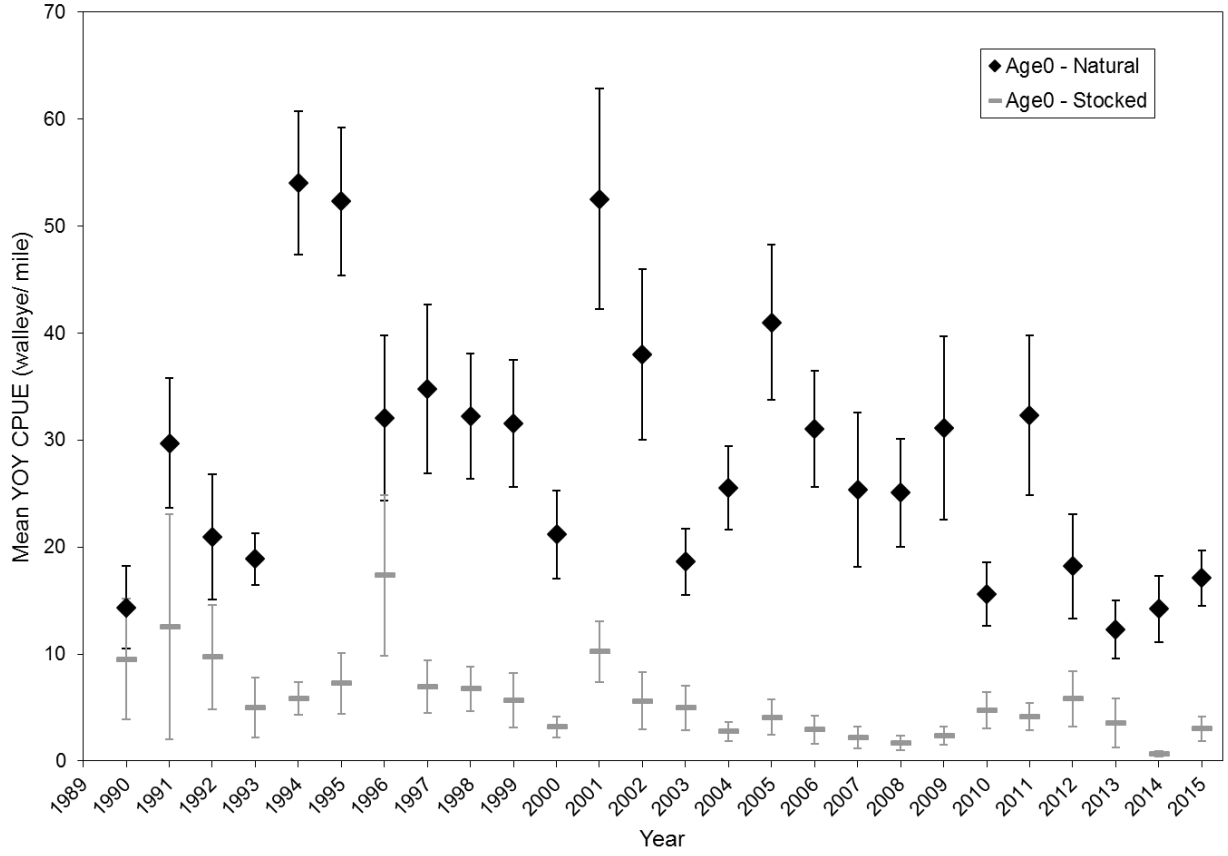

Figure 21. Comparison of mean YOY walleye density (± SE) observed in fall electrofishing surveys since 1990 in lakes dominated by natural recruitment or stocking.

A general linear model used to assess the impact of year and/or recruitment model on YOY walleye density was significant (p<0.0 01; Table 11). The significance of the model was driven by differences in YOY density between recruitment models (natural or stocked; p<0.0001), years (p<0.001), and the interaction of year*recruitment model (p=0.0003). Based on the significance of the year*recruitment model interaction term, regressions were done to evaluate trends independently for natural and stocked model lakes. YOY walleye densities have declined significantly over time in both natural (slope=-0.81, p<0.001) and stocked (slope=-0.30, p<0.001) model lakes since 1990 (Figure 21).

Table 11. GLM results comparing YOY walleye density across years and primary walleye recruitment source.

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	51	535687.066	10503.668	9.14	<.0001
Error	2,317	2663054.474	1149.355		
		Type III SS	**Mean Square**	**F Value**	**Pr > F**
Year	25	104030	4161	3.62	<.0001
Recruitment Model[a]	1	241545	241545	210.16	<.0001
Year x Recruitment Model	25	66072	2642	2.30	0.0003

a –Recruitment Models compared are ‘natural’ and ‘stocked’.

The percentages of natural-model lakes with greater than 25 YOY walleye per mile and greater than 100 YOY walleye per mile are also used to indicate strong annual year classes in the Wisconsin Ceded Territory. These values are less affected by large values for individual lakes than the mean number of YOY walleye caught per mile. In 2015, 17/77 natural model lakes (22%) had YOY indices > 25 per mile, and 1 NR lakes (1%) had YOY walleye indices > 100 per mile (Appendix E). Overall, the proportion of lakes with YOY catch rates greater than 25 or 100 fish per mile in 2015 was less than the mean proportion of lakes observed with the same catch rates between 1990-2014 (mean percentage > 25 YOY/mi = 34%; 100 >100/mi = 7%). These finding suggest a below average naturally produced walleye year class across the ceded territory in 2015 despite localized conditions that allowed for large year classes to be found in a limited number of waters.

In lakes categorized as being sustained primarily by stocking, differences in the mean number of YOY walleye captured per mile in lakes that were stocked (15.1 YOY/ mile) with fry or small or large

fingerlings was not significantly different (t-test unequal variance, t = -2.26, df = 7.3, P = 0.06) from those that were not stocked (1.6 YOY/ mile) in 2015 (Table 12). Despite the non-significant finding, the mean number of YOY/mile observed in stocked waters was notably higher than that in un-stocked waters. Such differences are commonly observed and most often statistically significant; In 2015, the lack of statistical significance was unusual and largely driven by low sample size in stocked waters and the inequality of variances between stocked and non-stocked waters.

Table 12. Young-of-the-year indices in lakes categorized as being sustained primarily by stocking (ST or C-ST), separated by whether or not the lake was stocked in 2015.

	Stocked in 2015	Not Stocked in 2015
No. Lakes	8	67
Mean YOY walleye/ mile	15.08	1.57
Q1/Median/Q3	4.1 / 14.1 / 15.5	0.0 / 0.0 / 0.0
Lakes with 0 YOY/ mile	1 (12%)	52 (78%)
Lakes with ≤5 YOY/ mile	2 (25%)	61 (91%)
Lakes with ≤10 YOY/ mile	3 (38%)	62 (93%)

Fall surveys were conducted on six lakes that were previously stocked with oxytetracycline (OTC) marked walleyes in 2015; samples of OTC marked fish the same fall only exceeded ten fish in four of the six lakes sampled (Table 13). The percent of marked fish tends to align well with recruitment code designations for lakes monitored during 2015, with higher values in predominantly stocked (C-ST) lakes, and lower values in lakes presumed to be dominated by natural reproduction (C-NR). Results of OTC sampling are not considered for recruitment code designation unless a minimum of 30 individual fish are sampled from the water body in question, and are not the sole factor used to define recruitment codes.

Table 13. Lakes stocked with oxytetracycline (OTC) marked fish sampled in 2015, number of sampled fish where OTC marks were noted on the otolith, and percent contribution of stocked fish to the total sample.

County	Lake	Recruit Code*	WBIC	With OTC	Without OTC	Total	% Contrib.
Oneida	Thunder L	C-ST	1580400	18	0	18	100
Oneida	Tomahawk L	C-ST	1542700	3	0	3	100
Oneida	Sevenmile L	C-ST	1605800	34	0	34	100
Oneida	Two Sisters L	C-NR	1588200	23	15	38	61
Vilas	Dead Pike L	C-ST	2316600	7	0	7	100
Vilas	Hunter	C-ST	991700	30	0	30	100

* Recruitment code C-ST is in the stocked model, C-NR is in the natural model (Appendix B).

REFERENCES

Anderson, R.O. and R.M. Neumann. 1996. Length, weight, and structural indices. In Fisheries Techniques, Second Edition. Edited by B.R. Murphy and D.W. Willis. American Fisheries Society, Bethesda, Maryland, USA. pp. 447 – 482.

Bailey, N.J.J. 1951. On estimating the size of mobile populations from recapture data. Biometrika 38:293-306.

Beard, T. D., Jr., S. W. Hewett, Q. Yang, R. M. King, and S. J. Gilbert. 1997. Prediction of angler catch rates based on walleye population density. North American Journal of Fisheries Management 17 (4): 621-627.

Beard, T.D., P.W. Rasmussen, S. Cox and S.R. Carpenter. 2003. Evaluation of a management system for a mixed walleye spearing and angling fishery in northern Wisconsin. North American Journal of Fisheries Management 23:481-491.

Berkes, F. and D. Pocock. 1987. Quota management and "people problems": a case history of Canadian Lake Erie fisheries. Transactions of the American Fisheries Society 116:494-502.

Chapman, D.G. 1951. Some properties of the hypergeometric distribution with applications to zoological sample censuses. University of California Publications in Statistics 1:131-160.

Cichosz, T.A. 2009. 2005-2006 Ceded Territory Fishery Assessment Report. Wisconsin Department of Natural Resources Bureau of Fisheries Management, Administrative Report 63, Madison, Wisconsin.

Cichosz, T.A. 2010. 2006-2007 Ceded Territory Fishery Assessment Report. Wisconsin Department of Natural Resources Bureau of Fisheries Management, Administrative Report 64, Madison, Wisconsin.

Cichosz, T.A. 2016. 2014-2015 Ceded Territory Fishery Assessment Report. Wisconsin Department of Natural Resources Bureau of Fisheries Management, Administrative Report 82, Madison, Wisconsin.

Colby, P. J., R. E. McNicol, and R. A. Ryder. 1979. Synopsis of biological data on the walleye *Stizostedion vitreum vitreum* (Mitchill 1818). FAO (Food and Agriculture Organization of the United Nations) Fisheries Synopsis 119.

Deroba, J.D., M.J. Hansen, N.A. Nate, and J.M. Hennessy. 2007. Temporal profiles of walleye angling effort, harvest rate, and harvest in northern Wisconsin lakes. North American Journal of Fisheries Management 27:717-727.

Hansen, M. J. 1989. A walleye population model for setting harvest quotas. Wisconsin Department of Natural Resources Bureau of Fisheries Management, Fish Management Report 143, Madison, Wisconsin.

Hansen, M. J., M.D. Staggs, and M. H. Hoff. 1991. Derivation of safety factors for setting harvest quotas on adult walleyes from past estimates of abundance. Transactions of the American Fisheries Society 120: 620-628.

Hansen, M. J., M.A. Bozek, J. R. Newby, S. P. Newman and M. D. Staggs. 1998. Factors affecting recruitment of walleyes in Escanaba Lake, Wisconsin, 1958-1996. North American Journal of Fisheries Management 18(4): 764-774.

Hansen, M. J., T. D. Beard Jr., S. W. Hewett. 2000. Catch rates and catchability of walleyes in angling and spearing fisheries in Northern Wisconsin lakes. North American Journal of Fisheries Management 20(1): 109-118.

Hansen, M. J., S. P. Newman and C. J. Edwards. 2004. A reexamination of the relationship between electrofishing catch rate of age-0 walleye density in northern Wisconsin lakes. North American Journal of Fisheries Management 24: 429-439.

Hansen, S.P. 2008. 2004-2005 Ceded Territory Fishery Assessment Report. Wisconsin Department of Natural Resources Bureau of Fisheries Management and Habitat Protection, Administrative Report 62, Madison, Wisconsin.

Hatch, R.W., S.J. Nepszy, K.M. Muth, and C.T. Baker. 1987. Dynamics of recovery of western Lake Erie walleye *stizostedion vitreum vitreum* stock. Canadian Journal of Fisheries and Aquatic Sciences 44 (Supplement 2):15-22.

Hennessy, J.M. 2005. 2002-2003 Ceded Territory Fishery Assessment Report. Wisconsin Department of Natural Resources Bureau of Fisheries Management and Habitat Protection, Administrative Report 59, Madison, Wisconsin.

Hennessy, J.M. 2002. 2001-2002 Ceded Territory Fishery Assessment Report. Wisconsin Department of Natural Resources Bureau of Fisheries Management and Habitat Protection, Administrative Report 55, Madison, Wisconsin.

Hewett, S. W. No Date. Walleye Population Sampling Plan, Treaty Fisheries Program. Wisconsin Department of Natural Resources, internal document. Madison, WI.

Hewett, S. W. and T. D. Simonson. 1998. Wisconsin's walleye management plan: moving management into the 21st century. Wisconsin Department of Natural Resources, Administrative Report #43, Bureau of Fisheries Management and Habitat Protection, Madison, Wisconsin.

Hubert, W. A. 1983. Passive capture techniques. Pages 95–122 *in* L.A. Nielsen and D.L. Johnson, editors. Fisheries techniques. American Fisheries Society, Bethesda, Maryland

Kope, R.G. 1999. Pacific coast salmon. In our living oceans. Report on the status of U.S. living marine resources, 1999. NOAA Technical Memorandum NMFS-F/SPO-41.

Krueger, J. 2010. Open water spearing in northern Wisconsin by Chippewa Indians during 2009. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2006-03, Odanah, Wisconsin.

Krueger, J. 2009. Open water spearing in northern Wisconsin by Chippewa Indians during 2008. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2009-02, Odanah, Wisconsin.

Krueger, J. 2008. Open water spearing in northern Wisconsin by Chippewa Indians during 2007. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2008-02, Odanah, Wisconsin.

Krueger, J. 2007. Open water spearing in northern Wisconsin by Chippewa Indians during 2006. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2007-02, Odanah, Wisconsin.

Krueger, J. 2006. Open water spearing in northern Wisconsin by Chippewa Indians during 2005. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2006-02, Odanah, Wisconsin.

Krueger, J. 2005. Open water spearing in northern Wisconsin by Chippewa Indians during 2004. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2005-02, Odanah, Wisconsin.

Krueger, J. 2004. Open water spearing in northern Wisconsin by Chippewa Indians during 2003. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2004-01, Odanah, Wisconsin.

Krueger, J. 2003. Open water spearing in northern Wisconsin by Chippewa Indians during 2002. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2003-03, Odanah, Wisconsin.

Krueger, J. 2002. Open water spearing in northern Wisconsin by Chippewa Indians during 2001. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2002-01, Odanah, Wisconsin.

Krueger, J. 2001. Open water spearing in northern Wisconsin by Chippewa Indians during 2000. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2001-01, Odanah, Wisconsin.

Krueger, J. 2000. Open water spearing in northern Wisconsin by Chippewa Indians during 1999. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2000-05, Odanah, Wisconsin.

Krueger, J. 1999. Open water spearing in northern Wisconsin by Chippewa Indians during 1998. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 99-4, Odanah, Wisconsin.

Krueger, J. 1998. Open water spearing in northern Wisconsin by Chippewa Indians during 1997. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 98-01, Odanah, Wisconsin.

Krueger, J. 1997. Open water spearing in northern Wisconsin by Chippewa Indians during 1996. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 97-02, Odanah, Wisconsin.

Krueger, J. and B. Brost. 2011. Open water spearing in northern Wisconsin by Chippewa Indians during 2010. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 2011-02, Odanah, Wisconsin.

Laarman, P.W. and J.R. Ryckman. 1982. Relative size selectivity of trap nets for eight species of fish. North American Journal of Fisheries Management 2:33-37.

Legault, C.M. 1999. Status review of king mackerel in the Gulf of Mexico. In our living oceans. Report on the status of U.S. living marine resources, 1999. NOAA Technical Memorandum NMFS-F/SPO-41.

Li, E.A.L. 1999. A travel cost demand model for recreational snapper angling in Port Phillip Bay, Australia. Transactions of the American Fisheries Society 128:639-647.

Li, J., Y. Cohen, D. H. Schupp, and I. R. Adelman. 1996. Effects of walleye stocking on year-class strength. North American Journal of Fisheries Management 16(4): 840-850.

Margenau, T. L. and S. P. AveLallemant. 2000. Effects of a 40-inch minimum length limit on muskellunge in Wisconsin. North American Journal of Fisheries Management 20: 986-993.

Milliman, S.R., R.C. Bishop and B.L. Johnson. 1987. Economic analysis of fishery rehabilitation under biological uncertainty: a conceptual framework and application. Canadian Journal of Fisheries and Aquatic Sciences 44 (Supplement 2):289-297.

Nate, N. A., M. A. Bozek, M. J. Hansen, and S. W. Hewett. 2000. Variation in walleye abundance with lake size and recruitment source. North American Journal of Fisheries Management. 20: 119-126.

Ney, J.J. 1993. Practical Use of Biological Statistics. Pages 137-158 *in* C.C. Kohler and W.A. Hubert, editors. Inland Fisheries Management in North America. American Fisheries Society, Bethesda, Maryland.

Ngu, H. H. 1996. Open water spearing in northern Wisconsin by Chippewa Indians during 1995. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 96-01, Odanah, Wisconsin.

Ngu, H. H. 1995. Open water spearing in northern Wisconsin by Chippewa Indians during 1994. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 95-03, Odanah, Wisconsin.

Rasmussen, P. W., M. D. Staggs, T. D. Beard, Jr., and S. P. Newman. 1998. Bias and confidence interval coverage of creel survey estimators evaluated by simulation. Transactions of the American Fisheries Society 127: 460-480.

Ricker, W. E. 1975. Computation and Interpretation of Biological Statistics of Fish Populations. Bulletin of the Fisheries Research Board of Canada 191. Department of the Environment, Fisheries, and Marine Science, Ottawa. 382 p.

SAS Institute, Inc. 2004. SAS Help and Documentation. Cary, NC. SAS Institute, Inc.

Serns, S. L. 1982. Relationship of walleye fingerling density and electrofishing catch per effort in northern Wisconsin lakes. North American Journal of Fisheries Management 2 (1): 38-44.

Simonson, T.D. and S.W. Hewett. 1999. Trends in Wisconsin's Muskellunge Fishery. North American Journal of Fisheries Management 19:291-299.

Staggs, M.D., R.C. Moody, M.J. Hansen, M.H. Hoff. 1990. Spearing and sport angling for walleye in Wisconsin's Ceded Territory. Wisconsin Department of Natural Resources, Administrative Report #31, Bureau of Fisheries Management, Madison, Wisconsin.

United States Department of the Interior (USDI), Bureau of Indian Affairs. 1991. Casting Light Upon the Waters. Minneapolis.

White, K. 2012. Open water spearing in northern Wisconsin by Chippewa Indians during 2011. Great Lakes Indian Fish and Wildlife Commission, Administrative Report 12-03, Odanah, Wisconsin.

Wisconsin Department of Natural Resources. 1996. Wisconsin Muskellunge Waters. Publication RS-919-96.

Wisconsin Technical Working Group. 1999. December meeting minutes.

APPENDICES

Appendix A. WDNR Lake Sampling Rotation 2013-2016.

YEAR	TREATY UNIT	MWBC	COUNTY	LAKE	AREA	CURRENT MODEL	# LAKES	ROTATION
2013	Spooner	2678100	BURNETT	LIPSETT	393	S	1	TREND
2013	Spooner	2742100	BAYFIELD	MIDDLE EAU CLAIRE	902	N	1	TREND
2013	Spooner	2496300	Washburn	Shell	2,580	N	1	Spatial
2013	Spooner	1764500	Taylor	Sackett	63	S	1	Spatial
2013	Spooner	2461100	Burnett	Devils	1,001	S	1	Spatial
2013	Spooner	2133200	Eau Claire	L Eau Claire	860	N	1	Spatial
2013	Spooner		Sawyer	Connors/L of the Pines	702	N	2	Spatial
2013	Spooner	2469800	Barron	Horseshoe	115	S	1	Spatial
2013	Spooner	1875900	Rusk	Pulaski	126	N	1	Spatial
TOTAL	**Spooner**				**6,742**		**10**	
2013	Woodruff	394400	FOREST	L METONGA	1,991	S	1	TREND
2013	Woodruff	2331600	VILAS	TROUT	3,816	S	1	TREND
2013	Woodruff	Multiple	Vilas	Eagle Chain	4,174	N	10	Spatial
2013	Woodruff	1586600	Oneida	Spider	118	N	1	Spatial
TOTAL	**Woodruff**				**10,281**		**14**	
2013	**TOTAL**				**17,023**		**24**	
2014	Spooner	2949200	IRON	PINE	312	N	1	TREND
2014	Spooner	2620600	POLK	BALSAM	2,054	S	1	TREND
2014	Spooner	2710800	Washburn	Matthews	263	S	1	Spatial
2014	Spooner	2157000	CHIPPEWA	OTTER LAKE	602	S	1	Spatial
2014	Spooner	1864000	Barron	Lower Devils	162	N	1	Spatial
2014	Spooner	2725500	Sawyer	Hayward	247	S	1	Spatial
2014	Spooner	2470000	Washburn	Horseshoe	194	S	1	Spatial
2014	Spooner	2694000	Douglas	Whitefish	832	N	1	Spatial
TOTAL	**Spooner**				**4,124**		**9**	
2014	Woodruff	1588200	ONEIDA	TWO SISTERS	719	N	1	TREND
2014	Woodruff	1545600	VILAS	BIG ARBOR VITAE	1,090	N	1	TREND
2014	Woodruff	Multiple	Oneida	Three Lakes Chain	6,024	N	16	Spatial
2014	Woodruff	1613500	Oneida	Whitefish	205	R	1	Spatial
2014	Woodruff	1543300	Oneida	Squirrel	590	N	1	Spatial
TOTAL	**Woodruff**				**8,883**		**21**	
2014	**TOTAL**				**13,007**		**30**	

YEAR	TREATY UNIT	MWBC	COUNTY	LAKE	AREA	CURRENT MODEL	# LAKES	ROTATION
2015	Spooner	2897100	BAYFIELD	DIAMOND	341	S	1	TREND
2015	Spooner	2391200	SAWYER	GRINDSTONE	3,111	N	1	TREND
2015	Spooner	2882300	Bayfield	Siskiwit	330	N	1	GLIFWC PE/ DNR Creel
2015	Spooner	1469100	Taylor	Rib Lake	301	N	1	Spatial
2015	Spooner	2393500	Sawyer	Sissabagama	805	N	1	Spatial
2015	Spooner	2303500	Iron	Long	370	S	1	Spatial
2015	Spooner	2423000	Sawyer	Ghost	385	S	1	Spatial/ no creel
2015	Spooner	2942300	Washburn	Long	3,384	N	1	Spatial
TOTAL	**Spooner**				**9,027**		**8**	
2015	Woodruff	1592400	Vilas	PLUM	1057	N	1	TREND
2015	Woodruff	1018500	Vilas	SNIPE	216	N	1	TREND
2015	Woodruff	716800	Vilas/Forest	Kentuck	1,001	N	1	GLIFWC PE/ DNR Creel
2015	Woodruff	1596300	Vilas	Little St. Germain	972	S	1	Spatial
2015	Woodruff	1586600	Oneida	Spider	123	N	1	Spatial/ no creel
2015	Woodruff	973000	Oneida	Bolger	115	S	1	Spatial
2015	Woodruff	494200	Langlade	Rose	115	N	1	Spatial
2015	Woodruff	1523600	Oneida	Bearskin	403	N	1	Spatial
2015	Woodruff		Oneida	Tomahawk/Minocqua Chain	5,805	S	5	Special/ no creel
2015	Woodruff	1618100	Oneida	Thunder	1,794	S	1	Spatial
TOTAL	**Woodruff**				**11,601**		**14**	
2015	**TOTAL**				**20,628**		**30**	
2016	Spooner	2678100	BURNETT	LIPSETT	393		1	TREND
2016	Spooner	2742100	BAYFIELD	MIDDLE EAU CLAIRE/BONY	902		1	TREND-BWREF
2016	Spooner	2918600	Ashland	Spider Lake (Moquah)	86		1	Spatial/ no creel
2016	Spooner	2294900	Iron	Turtle Flambeau Fl.	13545		1	Spatial
2016	Spooner	2390800	Sawyer	Lac Courte Oreilles	5,432		1	Spatial
2016	Spooner	2046600	Sawyer	Windigo	503		1	BW-REF
TOTAL	**Spooner**				**20,861**		**6**	
2016	Woodruff	394400	FOREST	L METONGA	1,991		1	TREND
2016	Woodruff	2331600	VILAS	TROUT	3,816		1	TREND
2016	Woodruff	2271600	Oneida/ Vilas	Squaw	785		1	GLIFWC PE/ DNR Creel
2016	Woodruff	995200	Vilas	Laura	628		1	Spatial
2016	Woodruff	2954500	VILAS	LYNX LAKE T43N R07E S18	339		1	Spatial
2016	Woodruff	418700	Oconto	Boot	230		1	Spatial
2016	Woodruff	1629500	VILAS	Big Portage	586		1	Spatial
2016	Woodruff	376900	FOREST	Lily	217		1	Spatial
2016	Woodruff	971600	Oneida	Big Carr	209		1	Spatial
2016	Woodruff	1835300	Vilas	Big Muskellunge	897		1	Spatial
TOTAL	**Woodruff**				**9,698**		**10**	
2016	**TOTAL**				**30,559**		**30**	

Appendix B. Walleye Recruitment Code Descriptions (primary source of walleye recruitment; U.S. Department of the Interior, 1991).

Recruitment Code[1]	Recruitment Model[2]	Description
blank	None	unknown
NONE/ O	None	No walleye are present
REM	Remnant	Stocking provides the only source of recruitment but was discontinued. The stock is expected to disappear at some time in the future.
0-ST	Remnant	Stocking provides the only source of recruitment but was initiated only recently and has not yet resulted in a harvestable population of adults.
ST	Stocked	Stocking provides the only source of recruitment and is consistent enough to result in a multi-year class adult population.
C-ST	Stocked	Stocking provides the primary source of recruitment but some natural reproduction occurs and may augment the adult population.
C-	Natural	Natural reproduction and stocking provide more or less equal recruitment to the adult population.
C-NR	Natural	Natural reproduction is adequate to sustain the population even though the lake is being stocked.
NR	Natural	Natural reproduction only; consistent enough to result in multi-year class adult populations.
NR-2	Remnant	Natural reproduction only; inconsistent, results in missing year classes.

1 - Recruitment Code = Designation of the *primary* recruitment source and done by a technical working group.

2 - Recruitment Model is used for data analysis and groups various recruitment codes into one of three categories.

Appendix C. 2015-2016 Creel Survey Summaries.

Angler Effort Summary

County	Lake	MWBIC	Acres	Walleye recruit code	Musky recruit code	Total angler effort	Total angler effort/ acre	Directed Effort Walleye	Walleye Effort/ Acre	Directed Effort Musky	Musky Effort/ Acre	Directed Effort Pike	Pike Effort/ Acre	Directed Effort LMB	LMB Effort/ Acre	Directed Effort SMB	SMB Effort/ Acre
Oneida	Bearskin	1523600	400	NR	ST	19,430	48.58	6,684	16.71	6,548	16.37	181	0.45	173	0.43	1,917	4.79
Oneida	Bolger	973000	119	C-ST	REM	3,731	31.35	1,130	9.50	761	6.39	525	4.41	1,597	13.42	1,850	15.55
Vilas	Kentuck	716800	957	C-NR	NR	29,169	30.48	2,749	2.87	7,790	8.14	154	0.16	3,045	3.18	3,703	3.87
Vilas	Little St. Germain	1596300	980	C-ST	C-	99,326	101.35	17,812	18.18	12,826	13.09	18,168	18.54	29,699	30.31	26,035	26.57
Vilas	Plum	1592400	1,108	NR	C-	22,051	19.90	7,032	6.35	3,767	3.40	5,126	4.63	2,477	2.24	7,184	6.48
Vilas	Snipe	1018500	239	NR	NR	3,597	15.05	1,287	5.38	1,809	7.57	2	0.01	123	0.51	433	1.81
Oneida	Thunder	1618100	1,835	C-ST	O	5,917	3.22	949	0.52	6	0.00	3,782	2.06	26	0.01	17	0.01
Bayfield	Diamond	2897100	341	C-ST	O	4,150	12.17	1,598	4.69	--	--	1,344	3.94	2,004	5.88	1,698	4.98
Sawyer	Grindstone	2391200	3,111	NR	ST	29,258	9.40	12,271	3.94	2,696	0.87	684	0.22	842	0.27	11,572	3.72
Iron	Long	2303500	396	C-ST	C-ST	5,878	14.84	968	2.44	3,474	8.77	257	0.65	0	0.00	623	1.57
Washburn	Long	2106800	3,290	C-NR	O	109,453	33.27	31,334	9.52	--	--	19,684	5.98	34,193	10.39	18,664	5.67
Bayfield	Siskiwit	2882300	330	NR	O	3,601	10.91	2,397	7.26	--	--	631	1.91	109	0.33	1,214	3.68
Sawyer	Sissabagama	2393500	719	C-NR	C-	34,723	48.29	5,605	7.80	8,690	12.09	5,338	7.42	8,356	11.62	5,135	7.14

Walleye

County	Lake	MWBIC	Acres	WAE Recruit Code	Initial WAE Bag	Final WAE Bag	WAE Size Reg.	Adult PE	APEAc	Angler Catch	Angler Catch/ Acre	Angler Harvest	Angler Harvest/ Acre	Specific catch rate	Specific harvest rate	No. fish measured	Mean length	General catch rate	General harvest rate
Oneida	Bearskin	1523600	400	NR	3	3	1>14	3,571	8.93	4,655	11.64	1,761	4.40	0.68	0.26	333	13.3	0.24	0.09
Oneida	Bolger	973000	119	C-ST	3	3	20-24 Slot	547	4.60	98	0.82	28	0.24	0.08	0.02	14	16.8	0.03	0.01
Vilas	Kentuck	716800	957	C-NR	3	3	1>14	2,073	2.17	162	0.17	31	0.03	0.04	0.00	8	24.9	0.01	0.00
Vilas	Little St. Germain	1596300	980	C-ST	3	3	20-24 Slot	2,586	2.64	2,187	2.23	310	0.32	0.08	0.01	14	18.8	0.02	0.00
Vilas	Plum	1592400	1,108	NR	3	3	14-18 slot	2,899	2.62	755	0.68	232	0.21	0.10	0.03	56	14.8	0.03	0.01
Vilas	Snipe	1018500	239	NR	3	3	20-24 Slot	2,232	9.34	899	3.76	0	0.00	0.67	0.00	0	--	0.26	0.00
Oneida	Thunder	1618100	1,835	C-ST	3	3	18	1,167	0.64	16	0.01	2	0.00	0.01	0.00	1	21.0	0.00	0.00
Bayfield	Diamond	2897100	341	C-ST	3	3	20-24 Slot	435	1.2756598	278	0.82	146	0.43	0.17	0.09	21	17.7	0.07	0.04
Sawyer	Grindstone	2391200	3,111	NR	3	3	14-18 slot	7,383	2.37	3,705	1.19	667	0.21	0.29	0.05	90	18.8	0.13	0.02
Iron	Long	2303500	396	C-ST	3	3	20-24 Slot	385	0.9722222	409	1.03	67	0.17	0.39	0.06	12	17.6	0.08	0.01
Washburn	Long	2106800	3,290	C-NR	3	3	18	8,481	2.58	4,666	1.42	1,184	0.36	0.13	0.04	81	19.6	0.04	0.01
Bayfield	Siskiwit	2882300	330	NR	3	3	20-24 Slot	1,995	6.05	1,664	5.04	83	0.25	0.67	0.03	25	16.6	0.47	0.02
Sawyer	Sissabagama	2393500	719	C-NR	3	3	18	1,162	1.62	1,202	1.67	86	0.12	0.16	0.01	13	19.6	0.04	0.00

Musky

County	Lake	MWBIC	Acres	MRC	Musky Class	Musky size limit	Angler catch	Angler catch/ acre	Angler harvest	Angler harvest/ acre	Specific catch rate	Specific harvest rate	No. fish measured	Mean length	General catch rate	General harvest rate
Oneida	Bearskin	1523600	400	ST	A2	28	540	1.35	16	0.04	0.0687	0.0025	2	38.8	0.0300	0.0000
Oneida	Bolger	973000	119	REM	B	40	28	0.24	0	0.00	0.0192	0.0000	0	--	0.0100	0.0000
Vilas	Kentuck	716800	957	NR	A1	40	244	0.25	0	0.00	0.0241	0.0000	0	--	0.0100	0.0000
Vilas	Little St. Germain	1596300	980	C-	A1	45	295	0.30	0	0.00	0.0145	0.0000	0	--	0.0000	0.0000
Vilas	Plum	1592400	1108	C-	A1	40	73	0.07	0	0.00	0.0131	0.0000	0	--	0.0000	0.0000
Vilas	Snipe	1018500	239	NR	B	40	73	0.31	0	0.00	0.0378	0.0000	0	--	0.0200	0.0000
Oneida	Thunder	1618100	1835	O	A1	40	4	0.00	0	0.00	0.0000	0.0000	0	--	0.0100	--
Bayfield	Diamond	2897100	341	O		40		0.00		0.00	--	--	--	--	--	--
Sawyer	Grindstone	2391200	3111	ST	A1	50	39	0.01	0	0.00	0.0080	0.0000	0	--	0.0000	0.0000
Iron	Long	2303500	396	C-ST	A2	40	310	0.78	0	0.00	0.0829	0.0000	0	--	0.0500	0.0000
Washburn	Long	2106800	3290	O		40		0.00		0.00	--	--	--	--	--	--
Bayfield	Siskiwit	2882300	330	O		40		0.00		0.00	--	--	--	--	--	--
Sawyer	Sissabagama	2393500	719	C-	A2	40	214	0.30	0	0.00	0.0224	0.0000	0	--	0.0100	0.0000

Northern Pike

County	Lake	MWBIC	Acres	Angler catch	Angler catch/ acre	Angler harvest	Angler harvest/ acre	Specific catch rate	Specific harvest rate	No. fish measured	Mean length	General catch rate	General harvest rate
Oneida	Bearskin	1523600	400	299	0.75	66	0.17	0.09	0.00	15	23.1	0.02	0.00
Oneida	Bolger	973000	119	177	1.49	23	0.19	0.19	0.04	14	21.5	0.06	0.01
Vilas	Kentuck	716800	957	14	0.01	0	0.00	0.00	0.00	0	--	0.00	0.00
Vilas	Little St. Germain	1596300	980	6,513	6.65	728	0.74	0.25	0.04	128	23.1	0.07	0.01
Vilas	Plum	1592400	1,108	2,158	1.95	472	0.43	0.30	0.08	183	21.1	0.10	0.02
Vilas	Snipe	1018500	239	5	0.02	0	0.00	1.14	0.00	0	--	0.01	0.00
Oneida	Thunder	1618100	1,835	5,044	2.75	1,163	0.63	1.18	0.30	435	21.3	0.87	0.20
Bayfield	Diamond	2897100	341	653	1.91	57	0.17	0.20	0.04	11	22.2	0.17	0.01
Sawyer	Grindstone	2391200	3,111	240	0.08	78	0.03	0.05	0.04	8	26.9	0.01	0.00
Iron	Long	2303500	396	47	0.12	0	0.00	0.00	0.00	0	--	0.01	0.00
Washburn	Long	2106800	3,290	7,491	2.28	996	0.30	0.20	0.04	59	22.4	0.07	0.01
Bayfield	Siskiwit	2882300	330	431	1.31	44	0.13	0.26	0.05	10	20.37	0.12	0.01
Sawyer	Sissabagama	2393500	719	2,474	3.44	237	0.33	0.23	0.02	42	23.6	0.07	0.01

Smallmouth Bass

County	Lake	MWBIC	Acres	Angler catch	Angler catch/ acre	Angler harvest	Angler harvest/ acre	Specific catch rate	Specific harvest rate	No. fish measured	Mean length	General catch rate	General harvest rate
Oneida	Bearskin	1523600	400	1,695	4.24	17	0.04	0.75	0.00	3	19.00	0.10	0.00
Oneida	Bolger	973000	119	1,344	11.29	30	0.25	0.53	0.01	10	15.50	0.41	0.01
Vilas	Kentuck	716800	957	2,449	2.56	27	0.03	0.56	0.01	6	18.60	0.09	0.00
Vilas	Little St. Germain	1596300	980	1,266	1.29	0	0.00	0.03	0.00	0	--	0.01	0.00
Vilas	Plum	1592400	1,108	2,939	2.65	17	0.02	0.37	0.00	3	19.10	0.16	0.00
Vilas	Snipe	1018500	239	294	1.23	0	0.00	0.41	0.00	0	--	0.09	0.00
Oneida	Thunder	1618100	1,835	0	0.00	0	0.00	0.00	0.00	0	--	0.00	0.00
Bayfield	Diamond	2897100	341	675	1.98	8	0.02	0.21	0.00	1	17.50	0.18	0.00
Sawyer	Grindstone	2391200	3,111	11,772	3.78	61	0.02	0.91	0.00	5	16.50	0.49	0.00
Iron	Long	2303500	396	26	0.07	0	0.00	0.04	0.00	0	--	0.01	0.00
Washburn	Long	2106800	3,290	11,665	3.55	1035	0.31	0.43	0.04	53	13.60	0.12	0.01
Bayfield	Siskiwit	2882300	330	613	1.86	24	0.07	0.29	0.01	7	15.76	0.18	0.01
Sawyer	Sissabagama	2393500	719	1,185	1.65	59	0.08	0.12	0.01	6	14.40	0.04	0.00

Largemouth Bass

County	Lake	MWBIC	Acres	Angler catch	Angler catch/ acre	Angler harvest	Angler harvest/ acre	Specific catch rate	Specific harvest rate	No. fish measured	Mean length	General catch rate	General harvest rate
Oneida	Bearskin	1523600	400	0	0.00	0	0.00	0.00	0.00	0	--	0.00	0.00
Oneida	Bolger	973000	119	767	6.45	9	0.08	0.44	0.01	3	14.07	0.24	0.00
Vilas	Kentuck	716800	957	2,669	2.79	6	0.01	0.71	0.00	1	18.30	0.11	0.00
Vilas	Little St. Germain	1596300	980	21,082	21.51	561	0.57	0.53	0.01	34	15.51	0.22	0.01
Vilas	Plum	1592400	1,108	282	0.25	13	0.01	0.08	0.00	4	16.98	0.01	0.00
Vilas	Snipe	1018500	239	2	0.01	0	0.00	0.00	0.00	0	--	0.00	0.00
Oneida	Thunder	1618100	1,835	121	0.07	0	0.00	0.00	0.00	0	--	0.01	0.00
Bayfield	Diamond	2897100	341	4,053	11.89	117	0.34	1.36	0.03	20	14.90	1.08	0.03
Sawyer	Grindstone	2391200	3,111	402	0.13	10	0.00	0.19	0.00	1	17.90	0.02	0.00
Iron	Long	2303500	396	12	0.03	0	0.00	--	--	0	--	0.02	0.00
Washburn	Long	2106800	3,290	28,282	8.60	3,580	1.09	0.66	0.08	183	12.80	0.27	0.03
Bayfield	Siskiwit	2882300	330	29	0.09	11	0.03	0.10	0.10	2	16.05	0.01	0.00
Sawyer	Sissabagama	2393500	719	7,585	10.55	1,038	1.44	0.58	0.09	119	11.35	0.25	0.03

Appendix D. WDNR Walleye Population Estimates Accepted For Use by the Treaty TWG in 2015.

MWBC	County	Lake	Acres	Angler Reg	Recruit Code	Adult PE	CV Adult PE	L95 C.I. Adults	Adult PE/Acre	Adult 0-12"	Adult 12-15"	Adult 15-20"	Adult 20+"
2734000	Bayfield	Atkins	176	Slot20-24	C-NR	156	0.142	113	0.89	1	8	123	24
2897100	Bayfield	Diamond	341	Slot20-24	C-ST	435	0.186	276	1.28	1	1	37	396
2152800	Chippewa	Lake Wissota	6,300	Slot14-18	NR	8,389	0.125	6,340	1.33	1,303	3,603	3,303	180
2747300	Douglas	Upper St Croix	855	Slot20-24	C-ST	1,585	0.116	1,224	1.85	9	670	601	305
2303500	Iron	Long	396	Slot20-24	C-ST	385	0.156	267	0.97	1	56	181	148
494200	Langlade	Rose	112	18	C-NR	104	0.239	55	0.93	1	1	27	75
1516000	Lincoln	Jersey City Flowa	404	Slot20-24	NR	2115	0.114	1641	5.24	12	867	1093	143
1523600	Oneida	Bearskin	400	1>14	NR	3,571	0.071	3,076	8.93	1,457	1,572	289	252
973000	Oneida	Bolger	119	Slot20-24	C-ST	547	0.311	214	4.60	6	308	218	15
1542300	Oneida	Kawaguesaga	670	Catch/Release	C-ST	866	0.104	689	1.29	1	135	287	443
1542400	Oneida	Minocqua	1,360	Catch/Release	C-ST	1,305	0.212	762	0.96	2	78	268	957
1586600	Oneida	Spider	123	Slot20-24	NR	348	0.158	240	2.83	1	220	112	15
1618100	Oneida	Thunder	1,768	Slot20-24	C-ST	1,167	0.351	364	0.66	1	27	943	196
1542700	Oneida	Tomahawk	3,392	Catch/Release	C-ST	2,520	0.169	1,684	0.74	6	924	248	1,343
2485700	Polk	North Pipe	58	18	NR	82	0.172	54	1.41	1	1	36	44
2490500	Polk	Pipe	284	18	C-ST	197	0.198	120	0.69	1	1	179	16
2423000	Sawyer	Ghost	372	Slot20-24	ST	790	0.190	496	2.12	1	7	329	454
2391200	Sawyer	Grindstone	3,111	Slot14-18	NR	7,383	0.050	6,662	2.37	42	2,520	4,043	779
2393500	Sawyer	Sissabagama	719	18	C-NR	1,162	0.138	847	1.62	1	142	769	250
1469100	Taylor	Rib	320	Slot20-24	C-NR	219	0.175	144	0.68	3	64	40	112
2316600	Vilas	Dead Pike	297	18	C-ST	166	0.147	118	0.56	1	13	118	34
2339900	Vilas	Escanaba	293	28	NR	2,968	0.119	2,277	10.13	3	368	2,345	252
716800	Vilas	Kentuck	958	Slot20-24	C-NR	2,073	0.088	1,716	2.16	1	1	75	1,996
1596300	Vilas	Little St Germain	980	Slot20-24	C-ST	2,586	0.300	1,067	2.64	3	93	1,170	1,320
1592400	Vilas	Plum	1033	Slot14-18	NR	2899	0.079	2449	2.81	18	980	1768	133
1018500	Vilas	Snipe	239	Slot20-24	NR	2,232	0.055	1,990	9.34	1,549	598	1	84
2106800	Washburn	Long	3,290	18	C-NR	8,481	0.054	7,585	2.58	1	578	6,582	1,320

Appendix D. Continued.

MWBC	County	Lake	Acres	Angler Reg	Recruit Code	PE - Males	CV Male PE	PE - Females	CV Female PE	M:F Ratio
2734000	Bayfield	Atkins	176	Slot20-24	C-NR	70	0.16	91	0.22	0.77
2897100	Bayfield	Diamond	341	Slot20-24	C-ST	20	0.30	411	0.19	0.05
2152800	Chippewa	Lake Wissota	6,300	Slot14-18	NR	5,649	0.12	1,320	0.34	4.28
2747300	Douglas	Upper St Croix	855	Slot20-24	C-ST	1,047	0.11	572	0.28	1.83
2303500	Iron	Long	396	Slot20-24	C-ST	148	0.15	185	0.27	0.80
494200	Langlade	Rose	112	18	C-NR	29	0.19	48	0.04	0.60
1516000	Lincoln	Jersey City Flowa	404	Slot20-24	NR	1,098	0.14	950	0.17	1.16
1523600	Oneida	Bearskin	400	1>14	NR	2,988	0.07	778	0.33	3.84
973000	Oneida	Bolger	119	Slot20-24	C-ST	509	0.33	29	0.00	17.55
1542300	Oneida	Kawaguesaga	670	Catch/Release	C-ST	351	0.13	496	0.15	0.71
1542400	Oneida	Minocqua	1,360	Catch/Release	C-ST	337	0.32	909	0.27	0.37
1586600	Oneida	Spider	123	Slot20-24	NR	262	0.16	83	0.44	3.16
1618100	Oneida	Thunder	1,768	Slot20-24	C-ST	431	0.38	342	0.41	1.26
1542700	Oneida	Tomahawk	3,392	Catch/Release	C-ST	1,170	0.13	1,308	0.34	0.89
2485700	Polk	North Pipe	58	18	NR	39	0.14	60	0.43	0.65
2490500	Polk	Pipe	284	18	C-ST	35	0.14	65	0.00	0.54
2423000	Sawyer	Ghost	372	Slot20-24	ST	49	0.21	690	0.24	0.07
2391200	Sawyer	Grindstone	3,111	Slot14-18	NR	5,865	0.05	2,234	0.23	2.63
2393500	Sawyer	Sissabagama	719	18	C-NR	794	0.13	353	0.39	2.25
1469100	Taylor	Rib	320	Slot20-24	C-NR	93	0.12	106	0.29	0.88
2316600	Vilas	Dead Pike	297	18	C-ST	50	0.00	58	0.12	0.86
2339900	Vilas	Escanaba	293	28	NR	1,186	0.14	1,173	0.17	1.01
716800	Vilas	Kentuck	958	Slot20-24	C-NR	34	0.00	2,026	0.09	0.02
1596300	Vilas	Little St Germain	980	Slot20-24	C-ST	472	0.42	1,307	0.31	0.36
1592400	Vilas	Plum	1033	Slot14-18	NR	1,877	0.08	1,336	0.26	1.40
1018500	Vilas	Snipe	239	Slot20-24	NR	1,871	0.05	516	0.32	3.63
2106800	Washburn	Long	3,290	18	C-NR	6,127	0.04	5,130	0.30	1.19

Appendix E. YOY Walleye Survey Summaries.

Lake	County	WBIC	Acres	Walleye Recruit Code	Model	Date	Temp	Total Shore	ShockMi	%Shock	Age0	Age0 Min Length	Age0 Max Length	Age0 Modal Length	Age0Mi	Serns	Hansen	Age1	Age1 Min Length	Age1 Max Length	Age1 Modal Length	Age1Mi	WEStock
English	Ashland	2914800	244	ST	stocked	10/01/2015	61	4.1	3.2	78.0	0.0				0.00	NA	NA	0.0	-	-	-	0.0	N
Mineral	Ashland	2916900	225	NR	natural	10/12/2015	55	5.3	4.8	90.6	11.0	5.5	7.3	None	2.29	NA	NA	0.0	-	-	-	0.0	N
Potter	Ashland	2917200	29	ST	stocked	09/21/2015	66	0.9	1.0	111.1	0.0	-	-	-	0.00	0	0.00	0.0	-	-	-	0.0	A
Spillerberg	Ashland	2936200	75	NR	natural	09/21/2015	65	1.5	1.6	106.7	62.0	4.3	6.9	4.9	38.75	9.0675	10.52	5.0	7.1	8.0	None	3.1	N
Bear	Barron	2105100	1358	C-ST	stocked	10/08/2015	59	14.9	6.9	46.3	0.0	-	-	-	0.00	NA	NA	5.0	8.4	9.0	None	0.7	N
Horseshoe	Barron	2469800	115	ST	stocked	09/28/2015	68	2.5	2.5	100.0	0.0	-	-	-	0.00	NA	NA	10.0	7.2	9.1	None	4.0	N
Lower Turtle	Barron	2079700	276	C-ST	stocked	09/30/2015	64	3.8	3.8	100.0	0.0	-	-	-	0.00	NA	NA	19.0	8.8	10.9	10.3	5.0	N
Red Cedar	Barron	2109600	1841	C-NR	natural	10/05/2015	63	15.9	12.2	76.7	146.0	5.2	7.3	5.9, 6.2	11.97	NA	NA	28.0	8.2	11.2	9.6	2.3	B
Upper Turtle	Barron	2079800	438	C-ST	stocked	09/29/2015	65	4.8	4.8	100.0	0.0	-	-	-	0.00	NA	NA	49.0	9.4	11.4	11.1	10.2	N
Atkins	Bayfield	2734000	176	C-NR	natural	09/21/2015	66	2.3	2.3	100.0	2.0	5.7	5.7	None	0.87	0.20347826	0.03	0.0	-	-	-	0.0	N
Bony	Bayfield	2742500	191	C-NR	natural	09/29/2015	65	2.7	2.7	100.0	13.0	6	7.7	7.1	4.81	1.12666667	0.40	1.0	11.0	11.0	None	0.4	N
Crystal	Bayfield	2897300	111	C-NR	natural	09/22/2015	67	2.5	2.5	100.0	15.0	6	6.8	6.2, 6.8	6.00	1.404	0.57	4.0	9.0	10.6	None	1.6	N
Diamond	Bayfield	2897100	341	C-ST	stocked	09/15/2015	65	5.0	5.0	100.0	0.0	-	-	-	0.00	NA	NA	1.0	11.0	11.0	None	0.2	A
Drummond	Bayfield	2899400	99	C-ST	stocked	10/06/2015	60	3.1	3.1	100.0	0.0	-	-	-	0.00	NA	NA	1.0	9.5	9.5	None	0.3	N
Middle Eau Claire	Bayfield	2742100	902	C-NR	natural	09/21/2015	66	11.0	7.7	70.0	64.0	4.3	8.3	4.5,5.0,5.3	8.31	NA	NA	11.0	8.4	10.0	8.7	1.4	EB
Taylor	Bayfield	2734100	94	REM	remnant	10/08/2015	56	1.7	1.8	105.9	8.0	6.5	7.4	7.0-7.4	4.44	1.04	0.36	0.0	-	-	-	0.0	N
Big Mckenzie	Burnett	2706800	1185	C-ST	stocked	09/30/2015	66	7.1	7.1	100.0	0.0	-	-	-	0.00	0	0.00	13.0	8.2	10.9	None	1.8	N
Lipsett	Burnett	2678100	393	O-ST	remnant	09/16/2015	69	3.5	3.5	100.0	0.0	-	-	-	0.00	0	0.00	1.0	9.8	9.8	None	0.3	N
Lower Clam	Burnett	2655300	337	REM	remnant	09/22/2015	65	3.8	2.0	52.6	72.0	7.2	9.2	8.1	36.00	NA	NA	3.0	11.5	12.9	None	1.5	N
Sand (North)	Burnett	2495100	962	O-ST	remnant	09/21/2015	68	8.3	7.5	90.4	0.0	-	-	-	0.00	NA	NA	6.0	8.7	10.4	None	0.8	A
Upper Clam	Burnett	2656200	1207	REM	remnant	09/22/2015	65	12.5	4.0	32.0	228.0	5.4	9.1	7	57.00	NA	NA	2.0	11.0	11.5	None	0.5	N
Lake Wissota	Chippewa	2152800	6300	NR	natural	09/29/2015	66	56.3	12.9	22.9	879.0	4.7	7.8	6.2	68.14	NA	NA	335.0	8.1	11.1	9.0	26.0	N
Long	Chippewa	2351400	1052	NR	natural	09/28/2015	67	14.0	14.0	100.0	224.0	4.5	7.9	5.9	16.00	3.744	2.64	24.0	8.4	10.8	10.5	1.7	A
Otter	Chippewa	2157000	661	ST	stocked	09/14/2015	67	20.0	14.1	70.5	0.0	-	-	-	0.00	NA	NA	3.0	11.6	11.8	None	0.2	A
Mead	Clark	2143900	320	C-ST	stocked	10/06/2015	60	8.2	6.3	76.8	0.0	-	-	-	0.00	NA	NA	48.0	9.3	11.8	10.7, 11.2	7.6	N
Amnicon	Douglas	2858100	426	C-NR	natural	10/15/2015	53	6.0	6.0	100.0	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	N
Lake Minnesuing	Douglas	2866200	432	ST	stocked	09/24/2015	65	6.9	6.9	100.0	1.0	7.1	7.1	None	0.14	NA	NA	3.0	9.7	10.7	None	0.4	A
Lake Nebagamon	Douglas	2865300	914	C-NR	natural	10/01/2015	63	10.8	10.8	100.0	168.0	3.6	8	6.2, 6.5	15.56	3.64	2.52	16.0	9.2	11.5	None	1.5	A
Lower Eau Claire	Douglas	2741600	802	NR	natural	09/30/2015	64	7.8	7.8	100.0	28.0	5.1	7.3	5.7, 6.0	3.59	0.84	0.25	29.0	8.0	10.1	8.9, 9.3	3.7	A
Altoona	Eau Claire	2128100	840	NR	natural	09/30/2015	64	9.4	4.0	42.6	112.0	5.1	7	6.5	28.00	NA	NA	249.0	7.2	10.2	8.3	62.3	N
Lake Eau Claire	Eau Claire	2133200	860	NR	natural	09/15/2015	68	24.3	4.0	16.5	25.0	5.8	7.3	6.7	6.25	NA	NA	21.0	8.3	10.6	9.5	5.3	N
Emily	Florence	651600	191	C-ST	stocked	09/22/2015	66	2.5	2.6	100	0	-	-	-	0.00	0.00	0.00	0	-	-	-	0.00	A
Long	Florence	677400	340	O		10/14/2015	53	4.8	1.0	21	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	A
Patten	Florence	653700	255	NR	natural	10/01/2015	58	3.9	3.9	100	327	3.6	8.4	6.7	83.85	NA	NA	0	-	-	-	0.00	N
Seidel	Florence	672000	55	O		09/23/2015	65	1.4	0.5	36	0	-	-	-	0.00	#REF!	NA	0	-	-	-	0.00	N
Arbutus	Forest	1814400	159	C-ST	stocked	09/14/2015	68	2.5	2.4	96	0	-	-	-	0.00	0.00	0.00	0	-	-	-	0.00	N
Butternut	Forest	692400	1293	C-NR	natural	09/29/2015	61	7.8	9.0	100	395	3.9	7.6	5.3	43.89	NA	NA	31	7.9	10.3	8.8, 8.9	3.44	N
Crane	Forest	388500	337	ST	stocked	09/14/2015	70	3.9	4.7	100	8	4.8	6.4	0.0	1.70	NA	NA	2	10.4	10.9	0.0	0.43	BA
Gordon	Forest	501800	50	REM	remnant	09/24/2015	67	1.4	1.5	100	0	-	-	-	0.00	0.00	0.00	0	-	-	-	0.00	N
Lily	Forest	376900	213	NR	natural	09/30/2015	63	2.9	3.8	100	69	4.9	7.3	5.7, 6.1	18.16	4.25	3.21	85	7.7	10.5	9.2	22.37	N
Metonga	Forest	394400	1991	C-ST	stocked	09/23/2015	67	7.9	9.6	100	567	4.4	7.5	5.8	59.06	NA	NA	32	8.1	10.8	8.7, 10.0	3.33	N
Trump	Forest	479300	172	ST	stocked	09/21/2015	68	2.8	3.0	100	45	4.3	7.2	5.7	15.00	3.51	2.38	0	-	-	-	0.00	BA
Bearskull	Iron	2265100	75	ST	stocked	09/09/2015	68	2.2	2.2	100.0	0.0	-	-	-	0.00	0	0.00	0.0	-	-	-	0.0	A
Echo	Iron	2301800	220	C-NR	natural	09/22/2015	65	4.9	3.2	65.3	0.0	-	-	-	0.00	NA	NA	21.0	6.5	8.9	7.0-7.4	6.6	N
Fisher	Iron	2307300	410	ST	stocked	09/23/2015	64	10.9	4.3	39.4	0.0	-	-	-	0.00	NA	NA	1.0	7.0	7.0	None	0.2	B
Lake Of The Falls	Iron	2298300	338	C-ST	stocked	09/21/2015	65	6.7	5.2	77.6	0.0	-	-	-	0.00	0	0.00	8.0	7.7	8.7	None	1.5	N
Long	Iron	2303500	396	C-ST	stocked	09/10/2015	69	12.5	8.1	64.8	0.0	-	-	-	0.00	NA	NA	63.0	7.6	9.7	9.0	7.8	A
Mc Dermott	Iron	2296500	84	C-ST	stocked	09/16/2015	70	2.6	2.6	100.0	0.0	-	-	-	0.00	0	0.00	0.0	-	-	-	0.0	A
Pine	Iron	2949200	312	NR	natural	10/01/2015	60	6.0	6.0	100.0	133.0	4.1	6.6	5.2	22.17	5.187	4.39	0.0	-	-	-	0.0	N
Sandy Beach	Iron	2316100	111	ST	stocked	09/15/2015	68	2.1	2.0	95.2	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	A
Spider	Iron	2306300	352	NR	natural	10/08/2015	55	7.3	7.8	106.8	24.0	5.7	6.9	6.2	3.08	0.72	0.20	0.0	-	-	-	0.0	N
Turtle Flambeau Fl	Iron	2294900	13122	NR	natural	10/5-7/2015	56	206.3	11.3	5.5	720.0	3.6	7.2	4.4	63.72	NA	NA	135.0	7.4	9.9	8.5	11.9	N
Rose	Langlade	494200	112	C-NR	natural	09/24/2015	67	7.3	3.7	51	0	-	-	-	0.00	NA	NA	3	10.3	11.6	0.0	0.81	N
Sawyer	Langlade	198100	149	C-NR	natural	09/15/2015	70	5.2	3.0	58	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	N
Summit	Langlade	1445600	282	O-ST	remnant	09/08/2015	73	3.3	3.3	100	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	A
Upper Post	Langlade	399200	757	C-ST	stocked	09/16/2015	68	7.6	4.7	62	0	-	-	-	0.00	NA	NA	2	9.7	10.2	0.0	0.43	A
Jersey City Flowage	Lincoln	1516000	404	NR	natural	09/21/2015	65	17.2	4.0	23	62	4.5	7.3	5.2	15.50	NA	NA	11	7.6	10.4	9.8	2.75	N
Pesabic	Lincoln	1481600	146	ST	stocked	09/09/2015	72	2.3	2.3	100	0	-	-	-	0.00	NA	NA	1	7.4	7.4	0.0	0.43	N
Pine	Lincoln	1012100	134	ST	stocked	09/01/2015	74	2.7	2.7	100	0	-	-	-	0.00	NA	NA	1	10.4	10.4	0.0	0.37	N
Seven Island	Lincoln	1490300	132	C-ST	stocked	09/10/2015	69	4.0	4.0	100	52	5.5	7.3	6.4	13.00	3.04	1.91	14	8.3	10.5	10.2, 10.4	3.50	N
Silver	Lincoln	1017400	95	NR	natural	09/22/2015	66	2.3	2.1	91	3	7.0	7.3	0.0	1.43	NA	NA	0	-	-	-	0.00	N
Somo	Lincoln	1547700	472	C-ST	stocked	09/02/2015	74	14.2	4.0	28	0	-	-	-	0.00	NA	NA	47	7.1	9.1	8.2	11.75	N
Spirit Reservoir	Lincoln	1506800	1664	NR	natural	09/29/2015	64	50.3	4.3	9	93	5.4	8.1	5.8, 6.1	21.63	NA	NA	15	9.2	10.5	9.8	3.49	N
Squaw	Lincoln	1564400	79	ST	stocked	09/14/2015	68	2.3	2.3	100	0	-	-	-	0.00	0.00	0.00	27	6.5	8.7	7.6	11.74	N
Tug	Lincoln	1482400	151	NR	natural	09/23/2015	68	2.7	2.3	85	0	-	-	-	0.00	NA	NA	5	8.1	9.8	0.0	2.17	N
Pike	Marathon	1403600	205	ST	stocked	09/23/2015	68	2.6	2.3	88	0	-	-	-	0.00	NA	NA	1	10.2	10.2	0.0	0.43	N
High Falls Flowage	Marinette	540600	1498	C-NR	natural	09/08/2015	73	30.2	9.9	33	0	-	-	-	0.00	NA	NA	18	8.5	10.9	8.9	1.82	A
Sandstone Flowage	Marinette	531300	153	C-NR	natural	10/06/2015	57	6.4	4.3	67	4	6.1	6.9	0.0	0.93	NA	NA	1	9.4	9.4	0.0	0.23	A
Archibald	Oconto	417400	393	C-ST	stocked	10/07/2015	60	8.8	6.0	68	32	5.9	7.4	6.8	5.33	NA	NA	11	9.3	10.8	3, 9.7, 10.2, 10	1.83	N
Bass	Oconto	417900	142	ST	stocked	09/14/2015	70	2.7	2.6	96	4	7.2	7.8	0.0	1.54	NA	NA	0	-	-	-	0.00	A
Boot	Oconto	418700	235	C-NR	natural	09/14/2015	70	3.8	3.9	100	0	-	-	-	0.00	NA	NA	1	9.0	9.0	0.0	0.26	A
Grindle	Oconto	421600	39	NONE	none	09/24/2015	69	1.0	1.0	100	0	-	-	-	0.00	0.00	0.00	0	-	-	-	0.00	N
Maiden	Oconto	487500	269	C-ST	stocked	09/15/2015	70	5.6	4.0	71	0	-	-	-	0.00	NA	NA	2	9.6	10.9	0.0	0.50	N
Townsend Flowage	Oconto	465000	476	O-ST	remnant	09/29/2015	64	11.6	5.6	48	0	-	-	-	0.00	NA	NA	1	8.1	8.1	0.0	0.18	N
Waubee	Oconto	439500	124	O-ST	remnant	09/23/2015	68	3.3	3.6	100	0	-	-	-	0.00	0.00	0.00	0	-	-	-	0.00	N
Wheeler	Oconto	439800	293	C-NR	natural	09/16/2015	70	4.6	4.2	91	2	5.8	6.5	0.0	0.48	NA	NA	0	-	-	-	0.00	A
Bearskin	Oneida	1523600	400	NR	natural	10/13/2015	55	5.6	6.0	100	328	5.1	8.0	6.2	54.67	NA	NA	103	7.8	9.5	9.2	17.17	N
Bolger	Oneida	973000	119	C-NR	natural	09/22/2015	67	3.1	3.2	100	0	-	-	-	0.00	0.00	0.00	2	9.2	9.6	0.0	0.63	N
East Horsehead	Oneida	1523000	184	C-NR	natural	09/10/2015	68	3.7	3.2	86	0	-	-	-	0.00	NA	NA	61	7.4	9.4	8.1	19.06	N
Fifth	Oneida	1571100	240	NR	natural	09/21/2015	65	4.5	3.6	80	0	-	-	-	0.00	NA	NA	10	9.6	11.2	10.2	2.78	A
Fourth	Oneida	1572000	258	NR	natural	09/21/2015	65	2.6	2.6	100	0	-	-	-	0.00	NA	NA	3	10.6	11.3	0.0	1.15	A
Kawaguesaga	Oneida	1542300	670	C-ST	stocked	09/14/2015	68	11.1	12.4	100	0	-	-	-	0.00	NA	NA	12	10.0	10.9	10.6	0.97	A
Long Lake	Oneida	1609000	604	NR	natural	09/08/2015	70	7.5	6.7	89	75	4.8	6.1	5.4	11.19	NA	NA	99	6.6	8.7	7.4	14.78	N
Minocqua	Oneida	1542400	1360	C-ST	stocked	09/16/2015	66	19.1	18.6	97	0	-	-	-	0.00	NA	NA	17	8.7	10.6	10.1, 10.2	0.91	A
Moen	Oneida	1573800	460	NR	natural	09/23/2015	66	3.9	4.2	100	0	-	-	-	0.00	NA	NA	10	9.6	11.3	10.2, 10.7, 11.1	2.38	A
Muskellunge	Oneida	1595600	284	C-NR	natural	10/06/2015	58	4.0	4.3	100	0	-	-	-	0.00	NA	NA	52	7.5	9.8	3.5, 8.7, 8.8, 8.9	12.09	N
North Nokomis	Oneida	1595800	476	C-ST	stocked	10/19/2015	52	7.3	7.5	100	102	6.5	8.6	7.5, 7.6	13.60	3.18	2.04	0	-	-	-	0.00	B
Pelican	Oneida	1579900	3585	NR	natural	09/22/2015	66	16.7	16.7	100	513	4.0	7.0	5.8	30.72	NA	NA	27	6.9	8.6	7.8	1.62	N
Sevenmile	Oneida	1605800	503	C-ST	stocked	10/20/2015	53	6.1	4.0	66	58	6.0	7.8	6.7	14.50	NA	NA	1	8.7	8.7	0.0	0.25	B
Shishebogama	Oneida	1539600	716	C-ST	stocked	09/09/2015	68	10.2	5.2	51	0	-	-	-	0.00	NA	NA	28	8.4	10.5	9.2, 9.3	5.38	A
Spider	Oneida	1586600	123	NR-2	remnant	09/21/2015	67	3.1	3.0	97	4	5.5	7.1	0.0	1.33	NA	NA	1	10.3	10.3	0.0	0.33	N
Stella	Oneida	1575700	405	O-ST	remnant	09/30/2015	60	4.4	4.1	93	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	A
Stella	Oneida	1575700	405	O-ST	remnant	10/07/2015	55	4.4	4.1	93	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	A

Appendix F. Continued.

Lake	County	WBIC	Acres	Walleye Recruit Code	Model	Date	Temp	Total Shore	ShockMi	%Shock	Age0	Age0 Min Length	Age0 Max Length	Age0 Modal Length	Age0Mi	Serns	Hansen	Age1	Age1 Min Length	Age1 Max Length	Age1 Modal Length	Age1Mi	WEStock
Stella	Oneida	1575700	405	O-ST	remnant	10/14/2015	53	4.4	4.1	93	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	A
Thompson	Oneida	1569900	382	ST	stocked	09/28/2015	66	6.9	7.7	100	3	6.8	8.2	0.0	0.39	NA	NA	2	8.1	9.0	0.0	0.26	N
Thunder	Oneida	1618100	1768	C-ST	stocked	10/01/2015	55	10.6	12.4	100	18	5.5	7.5	6.2	1.45	NA	NA	5	9.0	10.8	0.0	0.40	BA
Two Sisters	Oneida	1588200	719	C-NR	natural	10/05/2015	59	9.3	9.8	100	65	5.9	8.3	7.1	6.63	1.55	0.67	0	-	-	-	0.00	B
Balsam	Polk	2620600	2054	O-ST	remnant	10/07/2015	61	22.7	22.7	100.0	0.0	-	-	-	0.00	NA	NA	3.0	10.2	11.4	None	0.1	N
Big Butternut	Polk	2641000	378	C-ST	stocked	09/21/2015	69	3.4	3.4	100.0	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	A
Big Round	Polk	2627400	1015	ST	stocked	09/24/2015	67	5.7	5.7	100.0	0.0	-	-	-	0.00	0	0.00	0.0	-	-	-	0.0	A
Half Moon	Polk	2621100	579	O-ST	remnant	09/17/2015	69	7.1	5.6	78.9	0.0	-	-	-	0.00	NA	NA	1.0	10.2	10.2	None	0.2	A
North Pipe	Polk	2485700	58	NR	natural	09/22/2015	66	1.6	1.8	112.5	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	N
Pipe	Polk	2490500	284	C-ST	stocked	09/22/2015	66	5.0	5.1	102.0	1.0	6.2	6.2	None	0.20	NA	NA	0.0	-	-	-	0.0	A
Ward	Polk	2599400	91	ST	stocked	10/01/2015	63	2.3	2.3	100.0	0.0	-	-	-	0.00	0	0.00	19.0	7.6	9.7	None	8.3	N
Big Dardis	Price	2244200	144	ST	stocked	09/20/2015	68	2.8	2.7	96.4	13.0	6.3	7.8	None	4.81	NA	NA	0.0	-	-	-	0.0	N
Musser	Price	2245100	563	ST	stocked	09/29/2015	63	12.1	4.1	33.9	0.0	-	-	-	0.00	NA	NA	5.0	10.3	11.2	None	1.2	N
North Spirit	Price	1515200	213	ST	stocked	09/23/2015	67	5.5	2.0	36.4	0.0	-	-	-	0.00	NA	NA	12.0	9.5	10.9	10.4	6.0	A
Patterson	Price	1872500	70	O-ST	remnant	09/28/2015	65	1.8	1.8	100.0	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	N
Pike	Price	2268300	806	NR	natural	10/07/2015	57	10.9	4.2	38.5	67.0	5.3	7.9	6.3	15.95	NA	NA	17.0	8.4	10.5	10.0	4.0	N
Round	Price	2267800	726	NR	natural	10/07/2015	60	5.1	6.2	121.6	163.0	4.7	6.8	6.1	26.29	NA	NA	171.0	7.0	10.5	8.5	27.6	N
Solberg	Price	2242500	859	NR	natural	09/22/2015	65	12.4	4.0	32.3	20.0	6.2	7.8	7	5.00	NA	NA	0.0	-	-	-	0.0	A
Spirit	Price	1513000	126	O-ST	remnant	09/23/2015	67	3.5	2.0	57.1	0.0	-	-	-	0.00	NA	NA	9.0	8.8	10.3	None	4.5	A
Worcester	Price	2210900	100	NR	natural	09/28/2015	67	2.0	2.1	105.0	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	N
Chain	Rusk	2350500	468	C-ST	stocked	09/24/2015	69	7.9	6.4	81.0	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	A
Island	Rusk	2350200	526	ST	stocked	09/24/2015	66	5.8	5.8	100.0	1.0	7	7	None	0.17	NA	NA	0.0	-	-	-	0.0	A
Pulaski	Rusk	1875900	126	C-NR	natural	09/22/2015	65	2.5	2.5	100.0	3.0	5.8	6.7	None	1.20	0.2808	0.05	10.0	7.4	9.4	8.2	4.0	N
Sand	Rusk	2353600	262	C-NR	natural	09/16/2015	70	4.8	4.5	93.8	0.0	-	-	-	0.00	0	0.00	0.0	-	-	-	0.0	A
Barber	Sawyer	2382300	238	ST	stocked	09/28/2015	67	4.8	2.6	54.2	0.0	-	-	-	0.00	NA	NA	67.0	7.3	9.6	8.3	25.8	N
Barker	Sawyer	2400000	238	C-NR	natural	09/28/2015	67	6.3	3.8	60.3	4.0	5.5	6.1	None	1.05	NA	NA	29.0	6.9	9.4	8.3	7.6	N
Black	Sawyer	2401300	129	O-ST	remnant	09/30/2015	64	3.0	2.9	96.7	0.0	-	-	-	0.00	0	0.00	8.0	8.0	10.4	10.0-10.4	2.8	A
Black Dan	Sawyer	2381900	128	O-ST	remnant	09/30/2015	64	3.0	3.0	100.0	0.0	-	-	-	0.00	0	0.00	19.0	7.8	9.8	8.0	6.3	N
Blueberry	Sawyer	1835700	280	ST	stocked	09/16/2015	64	4.2	4.2	100.0	0.0	-	-	-	0.00	0	0.00	8.0	8.0	10.4	None	1.9	N
Connors	Sawyer	2275100	429	NR	natural	09/24/2015	67	5.0	3.0	60.0	66.0	5.3	7.9	7	22.00	NA	NA	2.0	10.2	10.3	None	0.7	N
Durphee	Sawyer	2396800	193	ST	stocked	09/14/2015	70	2.7	2.7	100.0	1.0	6.8	6.8	None	0.37	0.08666667	0.01	0.0	-	-	-	0.0	B
Fishtrap	Sawyer	2401100	216	O-ST	remnant	09/17/2015	68	6.8	2.9	42.6	0.0	-	-	-	0.00	NA	NA	2.0	9.5	10.4	None	0.7	A
Ghost	Sawyer	2423000	372	ST	stocked	09/14/2015	67	7.3	5.2	71.2	0.0	-	-	-	0.00	NA	NA	32.0	7.9	10.7	10.0,10.2,10.5	6.2	A
Grindstone	Sawyer	2391200	3111	NR	natural	09/28/2015	66	10.5	10.5	100.0	153.0	3.8	7.4	6.3, 6.4	14.57	3.40971429	2.28	34.0	7.7	9.5	8.6	3.2	N
Island	Sawyer	2381800	67	O-ST	remnant	09/30/2015	64	1.5	1.5	100.0	1.0	6.9	6.9	None	0.67	0.156	0.02	3.0	7.7	8.0	None	2.0	N
Lake Chippewa	Sawyer	2399700	15300	C-NR	natural	09/16/2015	68	232.9	8.0	3.4	43.0	5.8	7.5	6.7	5.38	NA	NA	155.0	8.0	10.4	9.0	19.4	A
Little Round	Sawyer	2395500	229	O-ST	remnant	09/24/2015	67	6.5	3.0	46.2	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	B
Lower Clam	Sawyer	2429300	203	C-ST	stocked	10/05/2015	59	4.2	4.4	104.8	6.0	6.2	7.8	None	1.36	NA	NA	11.0	9.4	10.7	10.2	2.5	A
Osprey	Sawyer	2395100	208	C-ST	stocked	10/01/2015	62	6.0	2.3	38.3	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	N
Sissabagama	Sawyer	2393500	719	C-NR	natural	09/30/2015	63	8.2	8.2	100.0	0.0	-	-	-	0.00	0	0.00	78.0	7.2	9.5	8.0	9.5	N
Smith	Sawyer	2726100	323	O-ST	remnant	09/09/2015	72	4.5	2.8	62.2	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	A
Spider	Sawyer	2435700	1454	C-ST	stocked	09/29/2015	62	20.8	5.0	24.0	0.0	-	-	-	0.00	NA	NA	2.0	9.4	9.5	None	0.4	A
Whitefish	Sawyer	2392000	786	C-ST	stocked	09/14/2015	67	8.1	8.1	100.0	2.0	6.4	6.5	None	0.25	0.05777778	0.00	34.0	7.8	9.0	8.7	4.2	N
Windigo	Sawyer	2046600	522	C-NR	natural	09/29/2015	63	9.0	2.9	32.2	32.0	4.1	7.2	5.7	11.03	NA	NA	0.0	-	-	-	0.0	N
Cedar	St. Croix	2615100	1100	NR	natural	10/05/2015	62	6.3	4.3	68.3	51.0	7	9.1	8	11.86	NA	NA	35.0	10.8	12.9	12.0-12.4	8.1	N
Mondeaux Flowage	Taylor	2193300	416	O-ST	remnant	09/29/2015	65	11.2	2.4	21.4	0.0	-	-	-	0.00	NA	NA	0.0	-	-	-	0.0	A
Rib	Taylor	1469100	320	C-NR	natural	09/21/2015	67	3.3	3.2	97.0	1.0	6.6	6.6	None	0.31	NA	NA	29.0	10.3	11.5	11.4	9.1	A
Allequash	Vilas	2332400	426	C-ST	stocked	10/07/2015	58	5.8	3.7	64	197	4.1	7.1	5.9	53.24	NA	NA	1	9.6	9.6	0.0	0.27	B
Arrowhead	Vilas	1541500	99	C-ST	stocked	10/15/2015	55	2.0	2.3	100	0	-	-	-	0.00	0.00	0.00	5	10.5	11.3	0.0	2.17	N
Big Arbor Vitae	Vilas	1545600	1090	NR	natural	10/07/2015	60	7.8	8.6	100	901	4.5	8.1	6.7	104.77	24.52	49.83	1	11.4	11.4	0.0	0.12	N
Dead Pike	Vilas	2316600	297	C-ST	stocked	09/24/2015	64	3.8	3.4	89	3	5.3	5.7	0.0	0.88	0.21	0.03	41	6.6	9.5	8.7	12.06	N
Escanaba	Vilas	2339900	293	NR	natural	09/09/2015	68	5.2	5.2	100	174	5.2	6.9	6.0	33.46	7.83	8.36	34	8.3	10.1	8.9	6.54	N
Escanaba	Vilas	2339900	293	NR	natural	09/15/2015	68	5.2	5.2	100	94	NA	NA	6.0	18.08	4.23	3.19	22	8.3	10.6	8.9	4.23	N
Escanaba	Vilas	2339900	293	NR	natural	09/22/2015	65	5.2	5.2	100	308	NA	NA	6.0	59.23	13.86	20.42	20	8.3	10.6	8.9	3.85	N
Escanaba	Vilas	2339900	293	NR	natural	09/30/2015	59	5.2	5.2	100	274	NA	NA	6.0	52.69	12.33	17.01	26	8.6	10.2	8.9	5.00	N
Escanaba	Vilas	2339900	293	NR	natural	10/06/2015	59	5.2	2.5	48	121	NA	NA	6.0	48.40	NA	NA	15	NA	NA	8.9	6.00	N
Escanaba	Vilas	2339900	293	NR	natural	10/13/2015	51	5.2	3.6	69	224	NA	NA	6.0	62.22	NA	NA	15	NA	NA	8.9	4.17	N
Found	Vilas	1593800	326	C-ST	stocked	09/22/2015	65	3.7	4.6	100	0	-	-	-	0.00	0.00	0.00	0	-	-	-	0.00	A
Hunter	Vilas	991700	184	C-ST	stocked	10/14/2015	59	3.2	3.1	97	50	5.9	7.8	7.0	16.13	NA	NA	0	-	-	-	0.00	B
Kentuck	Vilas	716800	958	C-NR	natural	10/08/2015	56	6.0	6.2	100	0	-	-	-	0.00	NA	NA	28	10.1	11.4	10.8, 11.0	4.52	N
Little Arbor Vitae	Vilas	1545300	534	NR	natural	10/06/2015	60	7.1	5.4	76	304	5.9	8.5	7.2	56.30	NA	NA	61	9.3	11.0	10.8	11.30	N
Little Spider	Vilas	1540400	235	C-ST	stocked	09/09/2015	70	4.6	4.4	96	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	A
Little St Germain	Vilas	1596300	980	ST	stocked	09/15/2015	68	12.9	16.3	100	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	A
Little Trout	Vilas	2321600	978	C-	natural	10/19/2015	53	5.4	3.0	56	30	5.0	6.8	5.7	10.00	NA	NA	8	8.0	9.2	8.4	2.67	N
Long	Vilas	1602300	872	C-ST	stocked	09/21/2015	65	8.2	7.5	91	0	-	-	-	0.00	0.00	0.00	0	-	-	-	0.00	A
Muskellunge	Vilas	1596600	272	ST	stocked	10/14/2015	54	3.6	4.0	100	0	-	-	-	0.00	0.00	0.00	7	8.8	10.6	10.2	1.75	N
Pickerel	Vilas	1619700	293	ST	stocked	09/14/2015	68	4.4	3.6	82	0	-	-	-	0.00	NA	NA	14	8.3	9.4	9.1	3.89	A
Pioneer	Vilas	1623400	427	ST	stocked	10/20/2015	50	3.7	4.1	100	0	-	-	-	0.00	0.00	0.00	13	8.8	10.5	9.4	3.17	N
Plum	Vilas	1592400	1033	NR	natural	09/29/2015	65	14.5	15.6	100	889	3.3	7.0	4.3, 4.4	56.99	13.34	19.22	21	7.2	10.3	7.5	1.35	N
Sanford	Vilas	2335300	88	NR	natural	09/08/2015	74	2.4	2.4	100	15	6.3	7.5	6.8	6.25	1.46	0.61	0	-	-	-	0.00	N
Sanford	Vilas	2335300	88	NR	natural	09/14/2015	70	2.4	2.4	100	33	6.1	8.2	6.8	13.75	3.22	2.08	0	-	-	-	0.00	N
Sanford	Vilas	2335300	88	NR	natural	09/21/2015	67	2.4	2.4	100	34	6.4	8.4	6.8	14.17	3.32	2.18	0	-	-	-	0.00	N
Sanford	Vilas	2335300	88	NR	natural	09/29/2015	62	2.4	2.4	100	45	6.7	8.4	6.8	18.75	4.39	3.38	1	8.5	8.5	-	0.42	N
Sanford	Vilas	2335300	88	NR	natural	10/05/2015	57	2.4	2.4	100	51	4.8	8.3	6.8	21.25	4.97	4.11	8	8.5	8.9	-	3.33	N
Sanford	Vilas	2335300	88	NR	natural	10/12/2015	55	2.4	2.4	100	24	7.0	8.4	6.8	10.00	2.34	1.26	5	8.7	9.5	-	2.08	N
Snipe	Vilas	1018500	239	NR	natural	09/30/2015	63	3.5	4.4	100	41	5.4	7.5	6.1, 6.5	9.32	NA	NA	52	8.5	10.7	8.7, 9.0, 9.2	11.82	N
Sparkling	Vilas	1881900	154	C-ST	stocked	10/01/2015	63	2.3	2.4	100	19	5.8	7.7	6.8, 7.0	7.92	1.85	0.88	0	-	-	-	0.00	B
Towanda	Vilas	1022900	146	ST	stocked	09/08/2015	73	3.3	2.8	85	0	-	-	-	0.00	NA	NA	0	-	-	-	0.00	A
Trout	Vilas	2331600	3816	C-ST	stocked	10/06/2015	60	17.9	12.7	71	189	4.8	8.4	6.7	14.88	NA	NA	0	-	-	-	0.00	B
Upper Gresham	Vilas	2330800	366	ST	stocked	10/05/2015	59	5.8	6.0	100	0	-	-	-	0.00	0.00	0.00	77	7.2	10.0	9.4	12.83	N
Upper Gresham	Vilas	2330800	366	ST	stocked	10/13/2015	55	5.8	5.9	100	-	-	-	-	-	#VALUE!	#VALUE!	-	-	-	9.4	-	N
Upper Gresham	Vilas	2330800	366	ST	stocked	10/19/2015	52	5.8	6.8	100	-	-	-	-	-	#VALUE!	#VALUE!	-	-	-	9.4	-	N
Lake Nancy	Washburn	2691500	772	C-ST	stocked	10/08/2015	59	10.9	8.1	74.3	0.0	-	-	-	0.00	NA	NA	27.0	7.8	11.6	None	3.3	N
Long	Washburn	2106800	3290	C-NR	natural	10/06/2015	62	38.0	38.0	100.0	94.0	4.8	7.6	5.7,6.9,7.2	2.47	NA	NA	267.0	7.7	11.5	9.1	7.0	N
Middle Mckenzie	Washburn	2706500	530	C-ST	stocked	10/01/2015	62	4.1	4.1	100.0	0.0	-	-	-	0.00	0	0.00	19.0	8.5	11.2	None	4.6	N
Shell	Washburn	2496300	2580	NR	natural	09/29/2015	64	10.2	10.2	100.0	136.0	4.1	6.6	5.2, 5.5	13.33	3.12	1.98	9.0	8.6	10.3	10.3	0.9	N
Slim	Washburn	2109300	224	C-ST	stocked	09/14/2015	70	2.6	2.6	100.0	0.0	-	-	-	0.00	0	0.00	0.0	-	-	-	0.0	A
Stone	Washburn	1884100	523	C-NR	natural	09/24/2015	68	4.0	4.0	100.0	6.0	4.4	6.4	None	1.50	0.351	0.07	4.0	8.3	10.2	10.2	1.0	N

Appendix F. Walleye Exploitation Rates.

G-1. Information on fin clipped fish in population (prior to creel) and those observed in angler creels used to estimate angler harvest and exploitation rates during the 2015-2016 fishing season.

							Clips Given Prior to Creel				Clips Observed in Creel					
Year	WBIC	County	Lake	Acres	Recruit. Code	Size Limit	Clip Given	# Clips Given	#Clips ≥14"	#Clips ≥20"	# Clips Observed	# Clips Projected	# Clips Obs. ≥14"	# Clips Proj. ≥14"	# Clips Obs. ≥20"	# Clips Proj. ≥20"
2015	2897100	Bayfield	Diamond	341	C-ST	20-24 Slot	RV	186	186	163	2	12	2	12	1	6
2015	2882300	Bayfield	Siskiwit	330	NR	20-24 Slot	LV	473	248	1	4	14	4	14	0	0
2015	2303500	Iron	Long	396	C-ST	20-24 Slot	LV	180	171	61	4	26	4	26	0	0
2015	1523600	Oneida	Bearskin	400	NR	1>14	LV	1,513	276	62	66	364	9	50	2	11
2015	973000	Oneida	Bolger	119	C-ST	20-24 Slot	LV	196	141	14	4	8	4	8	0	0
2015	1618100	Oneida	Thunder	1835	C-ST	18	LP	215	214	51	0	0	0	0	0	0
2015	2391200	Sawyer	Grindstone	3111	NR	14-18 slot	RV	3,039	2,549	245	11	77	10	70	5	35
2015	2393500	Sawyer	Sissabagama	719	C-NR	18	LV	404	390	60	3	21	3	21	3	21
2015	716800	Vilas	Kentuck	957	C-NR	1>14	LP	1,295	1,295	1,237	3	16	3	16	3	16
2015	1596300	Vilas	Little St. Germa	980	C-ST	20-24 Slot	LP	491	476	317	2	37	2	37	1	19
2015	1592400	Vilas	Plum	1108	NR	14-18 slot	LV	1,415	1,169	81	7	28	7	28	4	16
2015	1018500	Vilas	Snipe	239	NR	20-24 Slot	LP	1,577	48	45	0	0	0	0	0	0
2015	2106800	Washburn	Long	3290	C-NR	18	LV	3,614	3,535	233	10	122	10	122	2	24

G-2. Estimated angler and tribal harvest and associated walleye exploitation rates for lakes surveyed during the 2015-2016 fishing season.

County	Lake	Acres	Adult PE	Angler Harvest	Tribal Harvest	Total Harvest	Angler Exploitation	Angler Exploitation ≥14"	Angler Exploitation ≥20"	Tribal Exploitation	Total Exploitation
Bayfield	Diamond	341	435	146	1	147	0.0645	0.0645	0.0368	0.0023	0.0668
Bayfield	Siskiwit	330	1,995	83	0	83	0.0296	0.0565	0.0000	0.0000	0.0296
Iron	Long	396	385	67	0	67	0.1444	0.1520	0.0000	0.0000	0.1444
Oneida	Bearskin	400	3,571	1,761	935	2,696	0.2406	0.1798	0.1779	0.2618	0.5024
Oneida	Bolger	119	547	28	0	28	0.0408	0.0567	0.0000	0.0000	0.0408
Oneida	Thunder	1835	1,167	2	0	2	0.0000	0.0000	0.0000	0.0000	0.0000
Sawyer	Grindstone	3111	7,383	667	270	937	0.0253	0.0275	0.1429	0.0366	0.0619
Sawyer	Sissabagama	719	1,162	86	139	225	0.0520	0.0538	0.3500	0.1196	0.1716
Vilas	Kentuck	957	2,073	31	148	179	0.0124	0.0124	0.0129	0.0714	0.0837
Vilas	Little St. Germ	980	2,586	310	0	310	0.0754	0.0777	0.0584	0.0000	0.0754
Vilas	Plum	1108	2,899	232	350	582	0.0198	0.0240	0.1975	0.1207	0.1405
Vilas	Snipe	239	2,232	0	16	16	0.0000	0.0000	0.0000	0.0072	0.0072
Washburn	Long	3290	8,481	1,184	650	1,834	0.0338	0.0345	0.1047	0.0766	0.1104

Appendix G. Safe harvest of walleye and musky calculated for individual lakes within the Wisconsin Ceded Territory during 2015.

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Ashland	Augustine L	2410400	166			Other	5
Ashland	Bear L	2403200	204	Other	78	Other	6
Ashland	Beaver Dam L	2916700	118			Other	4
Ashland	Beaver L	2935400	25			Other	2
Ashland	Cub L	1842600	31			Other	2
Ashland	Day L	2430300	641	Other	17	Other	13
Ashland	E Twin L	2429000	110			Other	4
Ashland	English L	2914800	244	Other	32	Other	7
Ashland	Eureka L	2935600	39			Other	2
Ashland	Gordon L	2406500	142	Other	55	Other	5
Ashland	L Galilee	2935500	213	Other	8	Other	6
Ashland	Meder L	2935300	135	Other	19		
Ashland	Mineral L	2916900	225	Other	85	Other	6
Ashland	Moquah L	2918200	50	Other	3	Other	2
Ashland	Pelican L	2404800	46	Other	18	Other	2
Ashland	Potter L	2917200	29	Other	4		
Ashland	Spider L	2918600	103			Other	4
Ashland	Spillerberg L	2936200	75	Other	29	Other	3
Ashland	Tea L	2922700	50	Other	20		
Ashland	Torrey L	2406700	29			Other	2
Ashland	Upper Clam L	2429600	166	Other	23	Other	5
Ashland	Zielke L	2406900	21	Other	9		
Barron	Bass L	1832800	118	Other	6		
Barron	Bear L	2105100	1358	1-2 Year Pe	131		
Barron	Beaver Dam L	2081200	1112	1-2 Year Pe	48		
Barron	Big Dummy L	1835100	111	Other	16		
Barron	Big Moon L	2079000	191	Other	26	Other	6
Barron	Butternut L	2105800	141	Other	6		
Barron	Duck L	2100300	100	Other	39		
Barron	Echo L	2630200	161	Other	7		
Barron	Granite L	2100800	154	Other	59		
Barron	Hemlock L	2109800	357	Other	12		
Barron	Horseshoe L	2469800	115	1-2 Year Pe	16		
Barron	Horseshoe L	2630100	377	Other	12		
Barron	L Chetek	2094000	770	Other	93		
Barron	L Montanis	2103200	200	Other	27		
Barron	Little Sand L	2661600	101			Other	4
Barron	Loon L	2478600	94	Other	13		
Barron	Lower Devils L	1864000	162	Other	62		
Barron	Lower Turtle L	2079700	276	Other	36		
Barron	Lower Vermillion	2098200	208	Other	28		
Barron	Minnow L	1866600	26	Other	2		
Barron	Mud L	2094600	577	Other	16		
Barron	Pokegama L	2094300	506	Other	186		
Barron	Poskin L	2098000	150	Other	21		
Barron	Prairie L	2094100	1534	Other	174		
Barron	Red Cedar L	2109600	1841	Other	641		
Barron	Rice L	2103900	939			Other	16
Barron	Sand L	2661100	322	Other	11	Other	8
Barron	Scott L	2630700	81	Other	4		
Barron	Silver L	1881100	337	Other	126		
Barron	Spring L	1882800	60	Other	24		
Barron	Staples L	2631200	305	Other	40		
Barron	Tenmile L	2089500	376	Other	48		
Barron	Upper Devils L	2043500	86	Other	5		
Barron	Upper Turtle L	2079800	438	Other	55		
Bayfield	Armstrong L	2754600	48	Other	19		
Bayfield	Atkins L	2734000	176	Other	67		
Bayfield	Bellevue L	2755800	65	Other	4		
Bayfield	Bladder L	2756200	81	Other	32		
Bayfield	Bony L	2742500	191	1-2 Year Pe	48	Other	6

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Bayfield	Buffalo L	1837700	179	Other	7	Other	6
Bayfield	Buskey Bay	2903800	100	Other	0	Other	4
Bayfield	Camp One L	2965700	37	Other	15		
Bayfield	Chippewa L	2431300	274			Other	7
Bayfield	Cisco L	2899200	95	Other	14		
Bayfield	Cranberry L	2732800	58	Other	3		
Bayfield	Crystal L	2874700	94	Other	5		
Bayfield	Crystal L	2897300	111	Other	43		
Bayfield	Deep L	2760100	125	Other	6		
Bayfield	Diamond L	2897100	341	Other	44		
Bayfield	Drummond L	2899400	99	Other	14		
Bayfield	Eagle L	2902900	170			Other	5
Bayfield	Everett L	2761600	34	Other	2		
Bayfield	Finger L	2965500	76	Other	4		
Bayfield	Flynn L	2902800	29			Other	2
Bayfield	Ghost L	2423900	142			Other	5
Bayfield	Hammil L	2467900	83	Other	12		
Bayfield	Hart L	2903200	259	Other	0	Other	7
Bayfield	Hildur L	2902600	67			Other	3
Bayfield	Iron L	2877000	248	Other	9		
Bayfield	Jackson L	2734200	142	Other	6		
Bayfield	Kelly L	2472000	56	Other	3		
Bayfield	Kern L	2900500	91	Other	36		
Bayfield	L Knotting	2734700	80	Other	4		
Bayfield	L Millicent	2903700	183	Other	0	Other	6
Bayfield	L Owen	2900200	1323	1-2 Year Pe	132		
Bayfield	L Ruth	2765900	66	Other	4		
Bayfield	L Tahkodah	2473500	152	Other	7		
Bayfield	Little Siskiwit L	2882200	37	Other	15		
Bayfield	Long L	2767100	263	Other	35		
Bayfield	Marengo L	2921100	99	Other	39		
Bayfield	Mccarry L	2903400	32			Other	2
Bayfield	Middle Eau Claire	2742100	902	1-2 Year Pe	251	Other	16
Bayfield	Mill Pond L	2899700	62	Other	24		
Bayfield	Mullenhoff L	2876500	69	Other	4		
Bayfield	Muskellunge L	2903600	45	Other	3		
Bayfield	Namekagon L	2732600	3227	Other	1094	Other	35
Bayfield	Perch L	2770800	25	Other	10		
Bayfield	Pike L Treaty Cha	2902700	714	Other	259		
Bayfield	Samoset L	2494800	46	Other	3		
Bayfield	Siskiwit L	2882300	330	1-2 Year Pe	232		
Bayfield	Spider L	2774200	75	Other	4		
Bayfield	Spider L	2876200	124	Other	6		
Bayfield	Swett L	2743700	88	Other	34		
Bayfield	Trapper L	2734500	84	Other	33		
Bayfield	Twin Bear L	2903100	172	Other	0	Other	5
Bayfield	Upper Eau Claire	2742700	996	Other	356	Other	17
Burnett	Benoit L	2678300	279			Other	7
Burnett	Big Mckenzie L	2706800	1185	Other	137	Other	18
Burnett	Big Sand L	2676800	1400	Other	27		
Burnett	Big Trade L	2638700	304			Other	8
Burnett	Clam R Fl	2654500	359	Other	134		
Burnett	Danbury Fl	2674500	256			Other	7
Burnett	Des Moines L	2674200	229			Other	6
Burnett	Devils L	2461100	1001	1-2 Year Pe	40		
Burnett	Dunham L	2651800	243	Other	32		
Burnett	Elbow L	2463100	233	Other	9		
Burnett	Fish L	2464500	356	Other	12		
Burnett	Lipsett L	2678100	393	1-2 Year Pe	11		
Burnett	Little Mcgraw L	2477000	55	Other	8		
Burnett	Little Trade L	2639300	130			Other	4
Burnett	Little Yellow L	2674800	348	Other	130	Other	8
Burnett	Poquettes L	2491100	97	Other	14		
Burnett	Rice L	2677900	311			Other	8

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Burnett	Rooney L	2493100	322	Other	42		
Burnett	Round L	2640100	204	Other	27		
Burnett	Sand L	2495100	962	1-2 Year Pe	44		
Burnett	Twenty-Six L	2672500	230			Other	6
Burnett	Yellow L	2675200	2287	1-2 Year Pe	1003	Other	28
Chippewa	Axhandle L	2092500	84	Other	4		
Chippewa	Chippewa Falls Fl	2152600	282	Other	106		
Chippewa	Cornell Fl	2181400	577	Other	211	Other	12
Chippewa	Cornell L	2171000	194	Other	8		
Chippewa	Holcombe Fl	2184900	3890	Other	1308	Other	39
Chippewa	L Wissota	2152800	6300	Other	2068	Other	52
Chippewa	Long L	2351400	1052	Other	375	Other	17
Chippewa	Old Abe L	2174700	1072	Other	382	Other	17
Chippewa	Otter L	2157000	661	Other	81		
Chippewa	Popple L	2173900	90	Other	13		
Chippewa	Round L	2169200	216	Other	8	Other	6
Chippewa	Town Line L	2172600	48	Other	3		
Clark	Mead L	2143900	320	Other	21	Other	4
Douglas	Amnicon L	2858100	426	1-2 Year Pe	15	Other	10
Douglas	Bass L	2451700	126	Other	49		
Douglas	Bear L	2857700	49	Other	19	Other	2
Douglas	Beauregard L	2452400	93	Other	36		
Douglas	Bond L	2693700	293	Other	110		
Douglas	Clear L	2457700	36	Other	14		
Douglas	Dowling L	2858300	154	Other	59	Other	5
Douglas	Hoodoo L	2763900	32	Other	2		
Douglas	L Minnesuing	2866200	432	Other	55		
Douglas	L Nebagamon	2865000	914	1-2 Year Pe	174		
Douglas	Leader L	2693800	165	Other	63		
Douglas	Lower Eau Claire	2741600	802	Other	289	Other	14
Douglas	Lund L	2480300	75	Other	4		
Douglas	Lyman L	2856400	403	Other	51	Other	9
Douglas	Person L	2488600	172	Other	7		
Douglas	Peterson L	2488700	33	Other	2		
Douglas	Red L	2492100	258	Other	9		
Douglas	Round L	2493900	34	Other	2		
Douglas	Upper St Croix L	2747300	855	Other	102		
Douglas	Whitefish L	2694000	832	1-2 Year Pe	360		
Douglas	Wilson L	2600800	27	Other	2		
Dunn	Tainter L	2068000	1752	Other	611		
Eau Claire	Altoona L	2128100	840	Other	151	Other	7
Eau Claire	Dells Pond	2149900	739	Other	267	Other	14
Eau Claire	Halfmoon L	2125400	132	Other	18		
Eau Claire	L Eau Claire	2133200	860	1-2 Year Pe	332	Other	8
Florence	Bass L	652500	50	Other	3		
Florence	Emily L	651600	191	Other	26		
Florence	Fay L	677100	282	1-2 Year Pe	25		
Florence	Fisher L	704200	54	Other	3		
Florence	Halsey L	679300	512	1-2 Year Pe	79		
Florence	Keyes L	672900	210	Other	28		
Florence	Long L	677400	340	Other	11		
Florence	Patten L	653700	255	Other	96		
Florence	Pine R Fl	651300	127	Other	49		
Florence	Sand L	591600	52	Other	3		
Florence	Sea Lion L	672300	125	Other	6		
Forest	Arbutus L	181400	158	Other	22		
Forest	Birch L	555500	468	Other	172		
Forest	Butternut L	692400	1292	1-2 Year Pe	504		
Forest	Crane L	388500	337	Other	44		
Forest	Crystal L	184200	63	1-2 Year Pe	41		
Forest	Franklin L	692900	892	1-2 Year Pe	99		
Forest	Ground Hemlock L	395900	88	Other	13		
Forest	Howell L	691800	177	Other	68		
Forest	Jungle L	377900	177	1-2 Year Pe	80		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Forest	King L	501700	33	Other	13		
Forest	L Lucerne	396500	1026	Other	121		
Forest	L Metonga	394400	1991	1-2 Year Pe	1136		
Forest	Lily L	376900	213	1-2 Year Pe	187	Other	6
Forest	Little Long L	190500	102	Other	5		
Forest	Little Sand L	389700	229	Other	9		
Forest	Pine L	406900	1670	Other	188		
Forest	Quartz L	591000	47			Other	2
Forest	Range Line L	478200	82	1-2 Year Pe	54		
Forest	Riley L	557100	213			Other	6
Forest	Roberts L	378400	414	Other	53	Other	9
Forest	Silver L	555700	334	Other	11	Other	8
Forest	Stevens L	683000	297	1-2 Year Pe	81		
Forest	Trump L	479300	172	Other	23		
Forest	Van Zile L	608400	81	1-2 Year Pe	15		
Forest	Wabikon L	556900	594			Other	12
Forest	Windfall L	373500	55			Other	3
Iron	Bearskull L	2265100	75	Other	11		
Iron	Big Pine L	2270700	632	Other	230	Other	12
Iron	Boot L	2297800	180	Other	7	Other	6
Iron	Catherine L	2309100	118	Other	6		
Iron	Cedar L	2309700	193	1-2 Year Pe	42	Other	6
Iron	Charnley L	1840400	71	Other	4		
Iron	Clear L	2303700	67	Other	4	Other	3
Iron	Echo L	2301800	220	Other	83	Other	6
Iron	Fisher L	2307300	410	Other	52	Other	9
Iron	French L	1849600	92	Other	13	Other	4
Iron	Gile Fl	2942300	3384	Other	1145	Other	36
Iron	Grand Portage L	2314100	144	Other	20	Other	5
Iron	Grant L	2312500	107	Other	5	Other	4
Iron	Hewitt L	2763300	78			Other	3
Iron	Island L	2945500	352	Other	131	Other	9
Iron	L Of The Falls	2298300	338	Other	44	Other	8
Iron	L Tahoe	2314000	37	Other	2	Other	2
Iron	Little Martha L	2314700	35	Other	2	Other	2
Iron	Long L	2303500	396	Other	50	Other	9
Iron	Lower Springstead	2267000	95	Other	37	Other	4
Iron	Martha L	2314300	146	Other	56		
Iron	Mcdermott L	2296500	84	Other	12		
Iron	Mercer L	2313600	184	Other	25	Other	6
Iron	Moose L	2299300	269			Other	7
Iron	Mud L	2316400	56	Other	22		
Iron	Muskie L	2266800	81	Other	32	Other	3
Iron	N Bass L	1868900	180	Other	7	Other	6
Iron	Owl L	2307600	129	Other	18	Other	4
Iron	Oxbow L	2302300	80	Other	31	Other	3
Iron	Pardee L	2308000	206	Other	78	Other	6
Iron	Pike L	2299900	165	Other	63	Other	5
Iron	Pine L	2949200	312	1-2 Year Pe	296	Other	8
Iron	Plunkett L	2325200	48	Other	3		
Iron	Randall L	2318500	115	Other	45	Other	4
Iron	Rice L	2300600	125	Other	48	Other	4
Iron	Sandy Beach L	2316100	111	Other	16		
Iron	Saxon Falls Fl	2941100	41	Other	16	Other	2
Iron	Second Black L	2298600	60	Other	24		
Iron	Spider L	2306300	352	1-2 Year Pe	55	Other	9
Iron	Stone L	2267200	82	Other	4	Other	3
Iron	Third Black L	2298800	68	Other	27		
Iron	Trude L	2295200	781	Other	282	1-2 Year Pe	13
Iron	Turtle-Flambeau F	2294900	13545	Other	4274	Other	84
Iron	Upper Springstead	2267100	126	Other	49	Other	4
Iron	Virgin L	2304500	119			Other	4
Iron	Wilson L	2297000	162			Other	5
Langlade	Big Twin L	182200	60	Other	4		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Langlade	Deep Wood L	1445100	72			Other	3
Langlade	Duck L	981500	123	Other	6		
Langlade	Enterprise L	1579700	505	Other	186	Other	11
Langlade	Greater Bass L	1445500	258			Other	7
Langlade	Jessie L	188700	35	Other	2		
Langlade	Lawrence L	997300	50	Other	3		
Langlade	Moccasin L	1005600	110	Other	5	Other	4
Langlade	Mueller L	194000	88	Other	5		
Langlade	Otter L	387200	83	Other	32		
Langlade	Pickerel L	388100	1256	Other	25		
Langlade	Rolling Stone L	389300	672	Other	17		
Langlade	Rose L	494200	112	Other	43		
Langlade	Sawyer L	198100	149	1-2 Year Pe	31		
Langlade	Summit L	1445600	282	Other	10	Other	7
Langlade	Upper Post L	399200	757	Other	91		
Langlade	Water Power L	1445400	22			Other	1
Langlade	White L	365500	166	Other	7		
Lincoln	Alexander L	1494600	677	Other	246	Other	13
Lincoln	Bass L	969600	100	Other	5		
Lincoln	Clear L	1555400	272	Other	10		
Lincoln	Crystal L	979100	109	Other	5		
Lincoln	Deer L	1519600	156	Other	60	Other	5
Lincoln	Grandfather Fl	1502400	350	1-2 Year Pe	192		
Lincoln	Grandmother Fl	1503000	562	1-2 Year Pe	236		
Lincoln	Jersey City Fl	1516000	404	Other	150	Other	9
Lincoln	L Alice	1555900	1369	Other	483	Other	20
Lincoln	L Mohawksin	1515400	1910	Other	664	Other	25
Lincoln	L Nokomis	1516500	2433	Other	0	Other	29
Lincoln	Long L	1001000	132	Other	18		
Lincoln	Merrill Fl	1481100	164	Other	63		
Lincoln	Muskellunge L	1555500	167	Other	7		
Lincoln	Pesabic L	1481600	146	Other	20		
Lincoln	Pine L	1012100	134	Other	19	Other	5
Lincoln	Rice R Fl	1516400	920	Other	0	Other	16
Lincoln	Rice R Fl. Treaty	1516401	3764	Other	1267		
Lincoln	Seven Island L	1490300	132	Other	18	Other	5
Lincoln	Silver L	1017400	82	Other	32		
Lincoln	Somo L	1547700	472	Other	59	Other	10
Lincoln	Spirit R Fl	1506800	1664	Other	582	Other	23
Lincoln	Squaw L	1564400	79	Other	11	Other	3
Lincoln	Thompson L	1022200	30			Other	2
Lincoln	Tug L	1482400	151	Other	58	Other	5
Marathon	Big Eau Pleine Re	1427400	6830	Other	1786	Other	44
Marathon	L Wausau	1437500	1918	Other	67	Other	3
Marathon	Lost L	1407000	42	Other	3		
Marathon	Mayflower L	310500	98	Other	14		
Marathon	Mission L	1005400	107			Other	4
Marathon	Norrie L	310100	99	Other	5		
Marathon	Pike L	1406300	205	Other	28		
Marathon	Wausau Dam L	1469700	284	Other	8		
Marinette	Big Newton L	498800	68	Other	27		
Marinette	Caldron Falls Res	545400	1018	Other	22	Other	17
Marinette	Eagle L	500200	56	Other	3		
Marinette	High Falls Reserv	540600	1498	Other	526		
Marinette	Hilbert L	501200	247	Other	33		
Marinette	Johnson Falls Fl	533300	68	Other	27		
Marinette	Little Newton L	502300	60	Other	24		
Marinette	Oneonta L	503300	66	Other	4		
Marinette	Sandstone Fl	531300	153	Other	29		
Marinette	Thunder L	533600	127	Other	6		
Oconto	Archibald L	417400	393	Other	50	Other	9
Oconto	Bass L	417900	142	Other	20		
Oconto	Bear L	471200	78	Other	4		
Oconto	Boot L	418700	235	Other	89	Other	7

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Oconto	Chain L	464700	81	Other	4		
Oconto	Crooked L	462000	143	Other	6		
Oconto	Horn L	467100	132	Other	6		
Oconto	John L	470600	104	Other	5		
Oconto	Maiden L	487500	290	Other	38		
Oconto	Munger L	470900	97	Other	5	Other	4
Oconto	Reservoir Pond	466700	417	Other	13		
Oconto	Surprise L	428100	70	Other	4		
Oconto	Townsend Fl	465000	476	Other	14		
Oconto	Waubee L	439500	124	Other	6		
Oconto	Wheeler L	439800	293	Other	110		
Oneida	Aldridge L	967400	134	Other	52		
Oneida	Alva L	968100	201	Other	76		
Oneida	Baker L	1546000	42	Other	17		
Oneida	Bass L	970000	74	Other	4		
Oneida	Bass L	1580300	124	Other	48	Other	4
Oneida	Bear L	1527800	312	Other	41		
Oneida	Bearskin L	1523600	400	1-2 Year Pe	985	Other	9
Oneida	Big Carr L	971600	213	Other	29	Other	6
Oneida	Big Fork L	1610700	690	1-2 Year Pe	436	Other	13
Oneida	Big L	1613000	865	1-2 Year Pe	318	Other	15
Oneida	Big Stone L	1612200	548	1-2 Year Pe	156	Other	11
Oneida	Birch L	1523800	180	Other	69		
Oneida	Bird L	972000	99	Other	39		
Oneida	Blue L	1538600	456	Other	168		
Oneida	Bolger L	973000	119	Other	17		
Oneida	Boom L	1580200	437	Other	13	Other	10
Oneida	Booth L	1537800	207	Other	28	Other	6
Oneida	Bridge L	1516800	411	Other	0	Other	9
Oneida	Brown L	973700	98	Other	5		
Oneida	Buckskin L	2272600	634	Other	162	Other	9
Oneida	Buffalo L	974200	104	Other	40		
Oneida	Burrows L	975000	156	Other	7	Other	5
Oneida	Carrol L	1544800	352	Other	45	Other	9
Oneida	Chain L	1598000	219	Other	83	Other	6
Oneida	Clear L	977100	36	Other	2		
Oneida	Clear L	977200	30	Other	12	Other	2
Oneida	Clear L	977400	62	Other	24	Other	3
Oneida	Clear L	977500	846	Other	304	Other	15
Oneida	Clear L	2272555	212	Other	79	Other	6
Oneida	Clearwater L	1616400	351	Other	131	Other	9
Oneida	Columbus L	1616900	670	Other	243		
Oneida	Crescent L	1564200	612	Other	223	Other	12
Oneida	Crooked L	1613300	176	Other	7		
Oneida	Cunard L	1590000	43	Other	17		
Oneida	Currie L	979300	96	Other	37		
Oneida	Dam L	1596900	744	Other	269	Other	14
Oneida	Deer L	1612300	177	Other	68	Other	5
Oneida	Diamond L	1537100	124	Other	48	Other	4
Oneida	Dog L	1590200	37	Other	2		
Oneida	Dog L	1612900	216	Other	82	Other	6
Oneida	E Horsehead L	1523000	184	Other	70	Other	6
Oneida	Echo L	1597800	107	Other	42	Other	4
Oneida	Fifth L	1571100	240	Other	91	Other	7
Oneida	Fish L	1570600	70	Other	28	Other	3
Oneida	Fourmile L	1610800	218	1-2 Year Pe	138	Other	6
Oneida	Fourth L	1572000	258	Other	97	Other	7
Oneida	Franklin L	986000	161	Other	22	Other	5
Oneida	Fuller L	2272000	101	Other	5		
Oneida	Garth L	986600	114	Other	44		
Oneida	George L	1569600	435	Other	161	Other	10
Oneida	Gilmore L	1589300	320	Other	42	Other	8
Oneida	Hancock L	1517900	259	Other	10	Other	7
Oneida	Hasbrook L	1589100	302	Other	113	Other	8

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Oneida	Hat Rapids Fl	1567325	650	Other	236		
Oneida	Hemlock L	989200	39	Other	16		
Oneida	Hill L	990200	30	Other	2		
Oneida	Hixon L	1568900	50	Other	3		
Oneida	Hodstradt L	990700	126	Other	6		
Oneida	Indian L	1598900	397	Other	147		
Oneida	Island L	1610500	295	Other	111	Other	8
Oneida	Jennie Webber L	1574300	226	Other	9		
Oneida	Julia L (Three La	1614300	401	Other	149	Other	9
Oneida	Kate Pier L	1586300	34	Other	14		
Oneida	Kathan L	1598300	189	Other	72		
Oneida	Katherine L	1543300	590	Other	215	Other	12
Oneida	Kawaguesaga L	1542300	670	Other	82	Other	13
Oneida	Killarney L	1520900	421	Other	13		
Oneida	L Creek	1580500	172	Other	66	Other	5
Oneida	L Julia (Rhinelan	995000	238	Other	32	Other	7
Oneida	L Seventeen	996100	172	Other	23		
Oneida	L Thompson	1569900	382	Other	49	Other	9
Oneida	Laurel L	1611800	232	1-2 Year Pe	100	Other	7
Oneida	Little Bearskin L	1523500	164	Other	7		
Oneida	Little Carr L	998800	52	Other	3		
Oneida	Little Fork L	1610600	354	1-2 Year Pe	369	Other	9
Oneida	Little Tomahawk L	1543900	160	Other	0	Other	5
Oneida	Lone Stone L	1605600	172	Other	7	Other	5
Oneida	Long L	1001300	113	Other	44	Other	4
Oneida	Long L	1609000	620	1-2 Year Pe	297	Other	12
Oneida	Long L	1618300	56	Other	22	Other	3
Oneida	Lost L	1575100	155	Other	59		
Oneida	Lower Kaubashine	1534800	187	Other	25	Other	6
Oneida	Lumen L	1002800	49	Other	19		
Oneida	Madeline L	1544700	159			Other	5
Oneida	Manson L	1517200	236	Other	89	Other	7
Oneida	Maple L	1609900	144	Other	6		
Oneida	Margaret L	1615900	88	Other	34		
Oneida	Mars L	1577100	41	Other	16		
Oneida	Mccormick L	1526600	118	Other	17		
Oneida	Medicine L	1611700	372	1-2 Year Pe	161	Other	9
Oneida	Mercer L	1538900	257	Other	97	Other	7
Oneida	Mid L	1542600	215	Other	8	Other	6
Oneida	Mildred L	1004600	191	Other	8		
Oneida	Minocqua L	1542400	1360	Other	156	Other	20
Oneida	Moccasin L	1612100	95	Other	37	Other	4
Oneida	Moen L	1573800	460	Other	58	Other	10
Oneida	Mud L	1544000	41	Other	16		
Oneida	Mud L	1612500	124	Other	6	Other	4
Oneida	Muskellunge L	1595600	284	Other	107	Other	7
Oneida	Muskie L	1524300	43	Other	3		
Oneida	N Nokomis L	1595800	476	Other	60	Other	10
Oneida	N Two L	1007500	146	Other	56		
Oneida	Nose L	1008200	40	Other	3		
Oneida	Oatmeal L	1597300	97	Other	5		
Oneida	Oneida L	1518200	255	Other	96	Other	7
Oneida	Paradise L	1009400	89	Other	5		
Oneida	Pelican L	1579900	3585	Other	1210	Other	37
Oneida	Pickerel L	1590400	736	Other	18	Other	14
Oneida	Pier L	1529700	257	Other	34		
Oneida	Pine L	1012200	203	Other	77		
Oneida	Pine L	1581700	240	Other	91	Other	7
Oneida	Planting Ground L	1609100	1012	1-2 Year Pe	366	Other	17
Oneida	Prairie L	1013000	58	Other	23		
Oneida	Rainbow Fl	1595300	2035	Other	705	Other	26
Oneida	Range Line L	1610300	123	Other	48	Other	4
Oneida	Rhinelander Fl	1580100	1326	Other	468	Other	20
Oneida	Rocky Run Fl	1525500	96	Other	37		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Oneida	Round L	1610400	150	Other	58	Other	5
Oneida	S Blue L	1015100	80	Other	4		
Oneida	S Pine L	1580700	77	Other	30		
Oneida	S Two L	1015500	214	Other	81		
Oneida	Sand L	1597000	540	Other	198	Other	11
Oneida	Second L	1572300	111	Other	43	Other	4
Oneida	Sevenmile L	1605800	503	Other	63	Other	11
Oneida	Shepard L	1576100	179	Other	7	Other	6
Oneida	Shishebogama L	1539600	716	Other	43	Other	7
Oneida	Skunk L	1533200	130	Other	50		
Oneida	Soo L	1018900	135	Other	52	Other	5
Oneida	Spider L	1586600	118	1-2 Year Pe	56	Other	4
Oneida	Spirit L	1612000	368	Other	137	Other	9
Oneida	Squash L	1019500	396	Other	147		
Oneida	Squirrel L	1536300	1317	1-2 Year Pe	699	Other	20
Oneida	Stella L	1575700	405	Other	13	Other	9
Oneida	Stone L	1597600	188			Other	6
Oneida	Stone L	2272700	248	Other	94		
Oneida	Sunday L	1020600	88	Other	5		
Oneida	Sunset L	1572500	33	Other	13	Other	2
Oneida	Swamp L	1522400	296	Other	10		
Oneida	Swamsauger L	1528700	141	Other	54		
Oneida	Sweeney L	1589600	187	Other	71	Other	6
Oneida	Tamarack L	1582200	99	Other	39		
Oneida	Third L	1572200	103	Other	40	Other	4
Oneida	Thunder L	1580400	172	Other	66	Other	5
Oneida	Thunder L	1618100	1768	Other	198		
Oneida	Tim Lynn L	1597400	84	Other	33		
Oneida	Tom Doyle L	1586800	102	Other	14	Other	4
Oneida	Tomahawk L	1542700	3392	Other	0	Other	36
Oneida	Townline L	1609600	152	Other	58	Other	5
Oneida	Turtle L	1587400	53	Other	3		
Oneida	Two Sisters L	1588200	719	1-2 Year Pe	285	Other	13
Oneida	Tomahawk Chain	1542701	3552	Other	371		
Oneida	Upper Kaubashine	1535000	190	Other	72	Other	6
Oneida	Venus L	1577000	65	Other	26		
Oneida	Virgin L	1614100	276	Other	104	Other	7
Oneida	W Horsehead L	1522900	145			Other	5
Oneida	Walters L	1582800	61	Other	24		
Oneida	Whitefish L	1613500	205	Other	8	Other	6
Oneida	Wildwood L	1178600	28	Other	4		
Oneida	Willow Fl	1528300	5135	Other	1703	Other	46
Oneida	Willow L	1529500	395	Other	13	Other	9
Polk	Antler L	2449400	101	Other	5		
Polk	Apple R Fl	2624200	639			Other	12
Polk	Balsam L	2620600	2054	1-2 Year Pe	102		
Polk	Bear L	2452200	155	Other	59		
Polk	Bear Trap L	2618100	241	Other	9	1-2 Year Pe	5
Polk	Big Butternut L	2641000	378	Other	48		
Polk	Big L	2615900	259	Other	10		
Polk	Big Round L	2627400	1015	Other	119		
Polk	Bone L	2628100	1781			Other	24
Polk	Church Pine L	2616100	107	Other	5		
Polk	Clear L	2623500	30	Other	2		
Polk	Deer L	2619400	807			Other	14
Polk	Half Moon L	2621100	579	Other	16		
Polk	Indianhead Fl	2634400	776	Other	280		
Polk	Little Butternut	2640700	189	Other	8		
Polk	Magnor L	2624600	231	Other	31		
Polk	N Pipe L	2485700	58	Other	23		
Polk	N Twin L	2623900	135	Other	6		
Polk	Pike L	2624000	159	Other	7		
Polk	Pipe L	2490500	284	Other	37		
Polk	Sand L	2495000	187	Other	8		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Polk	Wapogasset L	2618000	1186	Other	137	1-2 Year Pe	27
Polk	Ward L	2599400	91	Other	13		
Polk	Wind L	2616000	38	Other	3		
Portage	Tree L	289400	74	Other	4		
Price	Amik L	2268600	224			Other	6
Price	Bass L	2279800	84	Other	4		
Price	Bass L	2282200	58	Other	23	Other	3
Price	Big Dardis L	2244200	144	Other	20	Other	5
Price	Blockhouse L	2256800	242	Other	9		
Price	Butternut L	2283300	1006	1-2 Year Pe	951	Other	17
Price	Cochram L	2264000	111	Other	5		
Price	Crane + Chase L	2237500	86	Other	34	Other	3
Price	Crowley Fl	2287200	422	Other	13	Other	10
Price	Deer L	2239100	145			Other	5
Price	Duroy L	2240100	379	Other	141	Other	9
Price	Elk L	2240000	88	Other	34	Other	3
Price	Grassy L	2238100	81	Other	32	Other	3
Price	Lac Sault Dore	2236800	561	Other	205	Other	11
Price	Long L	2239300	418	Other	155	Other	10
Price	Long L	2282000	241	Other	91	Other	7
Price	Lower Park Falls	2290100	71	Other	28	Other	3
Price	Miles L	2271100	32			Other	2
Price	Musser L	2245100	563	Other	70	Other	12
Price	N Spirit L	1515200	213	Other	29	Other	6
Price	Patterson L	1872500	70	Other	4		
Price	Pike L	2268300	806	Other	291	Other	14
Price	Pixley Fl	2288900	334	Other	125	Other	8
Price	Round L	2267800	726	Other	263	Other	14
Price	Schnur L	2284000	158	Other	61	Other	5
Price	Solberg L	2242500	859	Other	309	Other	15
Price	Spirit L	1513000	126	Other	6	Other	4
Price	Stone L	1513800	79	Other	4		
Price	Thompson L	2265900	111	Other	5	Other	4
Price	Turner L	2268500	149	Other	57	Other	5
Price	Upper Park Falls	2290500	431			Other	10
Price	Upper Price L	2235300	43			Other	2
Price	Whitcomb L	2266100	44	Other	7	Other	2
Price	Wilson L	2239400	351	Other	131	Other	9
Price	Worcester L	2210900	100	Other	39		
Rusk	Amacoy L	2359700	278	Other	36	Other	7
Rusk	Audie L	2368700	128			Other	4
Rusk	Bass L	2090900	88	Other	5		
Rusk	Big Falls Fl	2230100	369	Other	137	Other	9
Rusk	Chain L	2350500	468	Other	59	Other	10
Rusk	Clear L	2350600	95	Other	14	Other	4
Rusk	Dairyland Reservo	2229200	1745	Other	609	Other	24
Rusk	Fireside Lakes	2349500	302	Other	113		
Rusk	Island L	2350200	526	Other	65	Other	11
Rusk	Ladysmith Fl	2228700	288	Other	108	Other	7
Rusk	Mccann L	2350400	133	Other	18	Other	5
Rusk	Perch L	2368500	23			Other	1
Rusk	Potato L	2355300	534	Other	66	Other	11
Rusk	Pulaski L	1875900	126	1-2 Year Pe	45		
Rusk	Sand L	2353600	262	Other	99	Other	7
Rusk	Thornapple Fl	2227500	268	Other	101	Other	7
St. Croix	Cedar L	2615100	1100	1-2 Year Pe	435	Other	18
Sawyer	Barber L	2382300	238	Other	32	Other	7
Sawyer	Barker L	2400000	238	Other	90	Other	7
Sawyer	Bennett L	1834800	37	Other	2		
Sawyer	Beverly L	2387200	9			Other	1
Sawyer	Black Dan L	2381900	128	Other	6	Other	4
Sawyer	Black L	2401300	129	Other	6	Other	4
Sawyer	Blaisdell L	2402200	356	Other	46	Other	9
Sawyer	Boos L	2425000	37	Other	15	Other	2

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Sawyer	Burns L	2436400	37	Other	2	Other	2
Sawyer	Callahan L	2434700	106			Other	4
Sawyer	Clear L	1841300	77			Other	3
Sawyer	Connors L	2275100	429	1-2 Year Pe	125	Other	10
Sawyer	Durphee L	2396800	193	Other	26		
Sawyer	Evergreen L	2277600	200	1-2 Year Pe	140	Other	6
Sawyer	Fawn L	2435900	23	Other	2	Other	1
Sawyer	Fishtrap L	2401100	216	Other	8	Other	6
Sawyer	Ghost L	2423000	372	Other	48	Other	9
Sawyer	Grimh Fl	2385100	86			Other	3
Sawyer	Grindstone L	2391200	3111	Other	518	Other	17
Sawyer	Ham L	1852300	100	Other	39		
Sawyer	Hayward L	2725500	247	Other	33	Other	7
Sawyer	Holmes L	2419600	62			Other	3
Sawyer	Hunter L	2400600	126	Other	49	Other	4
Sawyer	Island L	2381800	67	Other	4	Other	3
Sawyer	L Chetac	2113300	1920	Other	667		
Sawyer	L Chippewa	2399700	15300	Other	3189	Other	60
Sawyer	L Of The Pines	2275300	273	Other	103	Other	7
Sawyer	L Placid	2436500	160	Other	22	Other	5
Sawyer	L Winter	2381100	676	Other	18	Other	13
Sawyer	Lac Courte Oreill	2390800	5039	Other	1092	Other	30
Sawyer	Lewis L	1860200	52	Other	3		
Sawyer	Little Round L	2395500	229	Other	7		
Sawyer	Little Sissabagam	2394100	299			Other	8
Sawyer	Loretta L	2382700	126			Other	4
Sawyer	Lost Land L	2418600	1304	Other	150	1-2 Year Pe	69
Sawyer	Lovejoy L	2395900	76	Other	30		
Sawyer	Lower Clam L	2429300	203	1-2 Year Pe	16	1-2 Year Pe	21
Sawyer	Mason L	2277200	190	1-2 Year Pe	170	Other	6
Sawyer	Meadow L	2424800	39	Other	16	Other	2
Sawyer	Mirror L	1866900	38	Other	3		
Sawyer	Moose L	2420600	1670	Other	584	Other	23
Sawyer	Mud L	2434800	480	Other	14	Other	10
Sawyer	Nelson L	2704200	2503	1-2 Year Pe	486		
Sawyer	North L	2436000	129	Other	6	Other	4
Sawyer	Osprey	2395100	208	Other	14		
Sawyer	Partridge Crop L	2424600	45	Other	18	Other	2
Sawyer	Perch L	1873600	129	Other	18	Other	4
Sawyer	Radisson Fl	2397400	255	Other	96	Other	7
Sawyer	Round L	2395600	3054	Other	1038	Other	33
Sawyer	Sand L	2393200	928	Other	333	Other	16
Sawyer	Sissabagama L	2393500	719	Other	260	Other	13
Sawyer	Smith L	2726100	323	Other	11		
Sawyer	Spider L	2435700	1454	Other	165	Other	21
Sawyer	Spring L	2724900	220	Other	8		
Sawyer	Teal L	2417000	1049	Other	374	1-2 Year Pe	35
Sawyer	Teal R Fl	2416900	75	Other	29	Other	3
Sawyer	Tiger Cat Fl	2435000	819	Other	98	Other	15
Sawyer	Whitefish L	2392000	786	Other	95	Other	14
Sawyer	Windfall L	2046500	102	Other	40		
Sawyer	Windigo L	2046600	522	Other	192		
Taylor	Anderson L	2165700	43	Other	3		
Taylor	Chelsea L	2200400	59	Other	3		
Taylor	Chequamegon	2160700	2714	Other	40		
Taylor	Diamond L	1757200	49	Other	19		
Taylor	Esadore L	1764000	46	Other	3		
Taylor	Hulls L	1762700	67	Other	4		
Taylor	James L	1468900	50	Other	3		
Taylor	Kathryn L	2166100	62	Other	9		
Taylor	Mondeaux Fl	2193300	416	Other	13	Other	9
Taylor	N Harper L	2204000	54	Other	21	Other	3
Taylor	Rib L	1469100	320	Other	120	Other	8
Taylor	Richter L	1760000	45	Other	3		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Taylor	S Harper L	2204100	80	Other	12		
Taylor	Sackett L	1764500	63	Other	9		
Taylor	Shearer L	2197600	21	Other	2		
Taylor	Wellington L	1467800	43	Other	3		
Vilas	Alder L	2329600	274	Other	103	Other	7
Vilas	Allequash L	2332400	426	Other	54	Other	10
Vilas	Alma L	967900	55	Other	8	Other	3
Vilas	Annabelle L	2953800	213	1-2 Year Pe	147	Other	6
Vilas	Anvil L	968800	398	Other	148		
Vilas	Apeekwa L	2269400	188	Other	72	Other	6
Vilas	Armour L	2953200	320	Other	120	Other	8
Vilas	Arrowhead L	1541500	99	Other	14	Other	4
Vilas	Averill L	2956700	71	Other	0	Other	3
Vilas	Ballard L	2340700	505	Other	186	Other	11
Vilas	Bass L	1604200	266	Other	10	Other	7
Vilas	Bear L	2335400	76	Other	4	Other	3
Vilas	Beaver L	2960600	68	Other	4		
Vilas	Belle L	2955700	53	Other	21	Other	2
Vilas	Benson L	2327100	28	Other	11	Other	2
Vilas	Big Arbor Vitae L	1545600	1090	1-2 Year Pe	1184	1-2 Year Pe	16
Vilas	Big Crooked L	2338800	682	Other	248	Other	13
Vilas	Big Donahue L	971700	92	Other	5		
Vilas	Big Gibson L	1835200	116	Other	45	Other	4
Vilas	Big Hurst L	2756000	48	Other	3		
Vilas	Big Kitten L	2336700	55	Other	3	Other	3
Vilas	Big L (Boulder Jc	2334700	835	1-2 Year Pe	338	Other	15
Vilas	Big L (Mi Border)	2963800	771	1-2 Year Pe	890	Other	11
Vilas	Big Muskellunge L	1835300	930	1-2 Year Pe	623	Other	16
Vilas	Big Portage L	1629500	638	Other	232		
Vilas	Big Sand L	1602600	1418	Other	162	Other	21
Vilas	Big St Germain L	1591100	1617	Other	566	Other	22
Vilas	Bills L	1835500	37	Other	0	Other	0
Vilas	Birch L	2311100	528	Other	194	Other	11
Vilas	Black Oak L	1630100	584	Other	16		
Vilas	Boot L	1619100	284	Other	10	Other	7
Vilas	Boot L	2756400	29	Other	2	Other	2
Vilas	Boulder L	2338300	524	1-2 Year Pe	234	Other	11
Vilas	Brandy L	1541300	110	Other	5	Other	4
Vilas	Carpenter L	976100	333	Other	43		
Vilas	Catfish L	1603700	1012	1-2 Year Pe	587	1-2 Year Pe	38
Vilas	Circle Lily L	2326700	223	Other	30	Other	6
Vilas	Clear L	2329000	555	Other	203	Other	11
Vilas	Cleveland L	2758600	32	Other	2		
Vilas	Cochran L	2963500	126	Other	6	Other	4
Vilas	Crab L	2953500	949	Other	340	Other	16
Vilas	Crampton L	2759000	59	Other	3		
Vilas	Cranberry L	1603800	956	1-2 Year Pe	678	1-2 Year Pe	36
Vilas	Crystal L	1842400	88	Other	5		
Vilas	Dead Pike L	2316600	297	Other	39	Other	8
Vilas	Deer L	980600	65	Other	4		
Vilas	Deer L	2311500	37	Other	2		
Vilas	Deerskin L	1601300	309	Other	40	Other	8
Vilas	Diamond L	1844700	122	Other	6	Other	4
Vilas	Dorothy Dunn L	1845600	70	Other	4	Other	3
Vilas	Duck L	1599900	108	Other	42	1-2 Year Pe	4
Vilas	E Ellerson L	2331300	136	Other	52	Other	5
Vilas	E Witches L	982500	34	Other	2		
Vilas	Eagle L	1600200	572	1-2 Year Pe	245	1-2 Year Pe	22
Vilas	Eleanore L	1631500	28	Other	11	Other	2
Vilas	Erickson L	983600	106	Other	15		
Vilas	Escanaba L	2339900	293	1-2 Year Pe	417	Other	8
Vilas	Fawn L	1591000	22	Other	9	Other	1
Vilas	Fawn L	2328900	74	Other	29	Other	3
Vilas	Finger L	984700	90	Other	13		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Vilas	Fishtrap L	2343200	329	Other	123	Other	8
Vilas	Forest L	2762200	466	1-2 Year Pe	175		
Vilas	Found L	1593800	326	Other	42	1-2 Year Pe	8
Vilas	Frank L	985900	141	Other	6		
Vilas	Harmony L	988300	88	Other	5		
Vilas	Harris L	2958500	507	1-2 Year Pe	700	Other	11
Vilas	Helen L	2964400	111	Other	43	Other	4
Vilas	Hiawatha L	2328400	36	Other	2		
Vilas	High L	2344000	734	Other	266	Other	14
Vilas	Horsehead L	2953100	234	Other	88	Other	7
Vilas	Hunter L	991700	184	Other	25		
Vilas	Imogene L	586800	66	Other	4		
Vilas	Indian L	2764400	68			Other	3
Vilas	Irving L	2340900	403	Other	13	Other	9
Vilas	Island L	2334400	1023	Other	365	Other	17
Vilas	Jag L	1855900	158	Other	61	Other	5
Vilas	Jenny L	1856400	59	Other	23		
Vilas	Johnson L	1541100	78	Other	4	Other	3
Vilas	Jute L	1857400	194			Other	6
Vilas	Katinka L	2957000	172	Other	66		
Vilas	Kentuck L	716800	957	1-2 Year Pe	675	Other	16
Vilas	Kenu L	1629800	73	Other	4		
Vilas	Kildare L	1631700	54	Other	3	Other	3
Vilas	L Content	1592000	244	Other	92	Other	7
Vilas	L Laura	995200	599	Other	219	Other	12
Vilas	Lac Des Fleurs	1630900	49	Other	3		
Vilas	Lac Vieux Desert	1631900	4300	Other	285	Other	27
Vilas	Little Arbor Vita	1545300	534	1-2 Year Pe	87	Other	11
Vilas	Little Crooked L	2335500	153	Other	7	Other	5
Vilas	Little Horsehead	2953000	52	Other	21		
Vilas	Little John L	2332300	166	Other	64	Other	5
Vilas	Little Papoose L	2328200	46	Other	3	Other	2
Vilas	Little Portage L	1629200	170	Other	65	Other	5
Vilas	Little Presque Is	2959700	85	Other	4	Other	3
Vilas	Little Rice L	2338900	59	Other	3	Other	3
Vilas	Little Spider L	1540400	235	Other	31	Other	7
Vilas	Little St Germain	1596300	980	Other	116	Other	16
Vilas	Little Star L	2334300	244	Other	92	Other	7
Vilas	Little Trout L	2321600	978	Other	105	Other	5
Vilas	Lone Pine L	2961600	142	Other	6	Other	5
Vilas	Long L	1602300	872	Other	104	Other	15
Vilas	Loon L	1001600	31	Other	2		
Vilas	Lost Canoe L	2339800	249	Other	94		
Vilas	Lost L	1593400	544	Other	68	Other	11
Vilas	Lower Aimer L	2955000	34	Other	2		
Vilas	Lower Buckatabon	1621000	352	Other	12	Other	9
Vilas	Lower Gresham L	2330300	149			Other	5
Vilas	Lynx L	1600000	22	1-2 Year Pe	10	1-2 Year Pe	1
Vilas	Lynx L	2954500	339	Other	126	Other	8
Vilas	Mamie L	2964100	400	1-2 Year Pe	565	Other	9
Vilas	Manitowish L	2329400	506	Other	186	Other	11
Vilas	Mann L	2332000	261	Other	10		
Vilas	Marshall L	1626600	87	Other	5	Other	3
Vilas	Mccullough L	2960400	216	Other	8	Other	6
Vilas	Mermaid L	2768100	60	Other	9		
Vilas	Meta L	1004400	175	Other	7		
Vilas	Middle Ellerson L	1866100	60			Other	1
Vilas	Middle Gresham L	2330700	53	Other	3	Other	2
Vilas	Moccasin L	1005700	83	Other	12	Other	3
Vilas	Moon L	1005800	131	Other	18	Other	4
Vilas	Morton L	2960300	163	Other	7	Other	5
Vilas	Murphy L	2769700	81	Other	4	Other	3
Vilas	Muskellunge L	1596600	272	Other	36	Other	7
Vilas	N Crab L	2953400	56	Other	22	Other	3

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Vilas	N Turtle L	2310400	369	Other	137	Other	9
Vilas	N Twin L	1623800	2788	Other	0	Other	32
Vilas	Nelson L	1007600	104	Other	5	Other	4
Vilas	Nelson L	1869900	27			Other	2
Vilas	Nixon L	2341200	110	Other	5	Other	4
Vilas	No Mans L	2312100	225	Other	85	Other	6
Vilas	Norwood L	1008100	125	Other	12		
Vilas	Oswego L	1871800	66			Other	3
Vilas	Otter L	1600100	196	1-2 Year Pe	90	1-2 Year Pe	7
Vilas	Oxbow L	2954800	511	1-2 Year Pe	380	Other	11
Vilas	Pallette L	1872100	173			Other	5
Vilas	Palmer L	2962900	635	Other	78	Other	12
Vilas	Papoose L	2328700	428	Other	54	Other	10
Vilas	Partridge L	2341500	228	Other	9	Other	6
Vilas	Pickerel L	1619700	293	1-2 Year Pe	31	Other	8
Vilas	Pine Island L	1011900	79	Other	4	Other	3
Vilas	Pioneer L	1623400	427	Other	54	Other	10
Vilas	Plum L	1592400	1033	Other	369	Other	17
Vilas	Plum L	2963200	225	1-2 Year Pe	11		
Vilas	Presque Isle L	2956500	1280	Other	0	Other	19
Vilas	Presque Is. Treat	2956501	1571	Other	551		
Vilas	Rainbow L	2310800	146	Other	56	Other	5
Vilas	Razorback L	1013800	362	1-2 Year Pe	442	Other	9
Vilas	Rest L	2327500	608	Other	222	Other	12
Vilas	Rice L	1618600	71	Other	28	Other	3
Vilas	Roach L	1014000	51	Other	20	Other	2
Vilas	Roach L	2772500	125	Other	2		
Vilas	Rock L	2311700	122	Other	47	Other	4
Vilas	Rosalind L	1877900	43			Other	2
Vilas	Round L	2334900	116	Other	6	Other	4
Vilas	Rudolph L	2954300	79			Other	3
Vilas	Rush L	2343600	44	Other	18	Other	2
Vilas	S Turtle L	2310200	454	Other	167	Other	10
Vilas	S Twin L	1623700	642	Other	0	Other	13
Vilas	Sanford L	2335300	88	Other	34	Other	3
Vilas	Scattering Rice L	1600300	267	Other	100	1-2 Year Pe	10
Vilas	Sherman L	1880700	123	1-2 Year Pe	51	Other	4
Vilas	Smoky L	1018300	610			Other	0
Vilas	Snipe L	1018500	239	Other	90	Other	7
Vilas	Sparkling L	1881900	154	Other	21	Other	5
Vilas	Spectacle L	717400	171	Other	7		
Vilas	Spider L	2329300	272	Other	102	Other	7
Vilas	Spring L	2964800	205	Other	78		
Vilas	Squaw L	2271600	785	1-2 Year Pe	395	Other	14
Vilas	Star L	1593100	1206	Other	428	Other	19
Vilas	Stateline L	2952100	199	Other	2		
Vilas	Stewart L	1020000	39	Other	16		
Vilas	Stone L	2328800	139	Other	54	Other	5
Vilas	Sturgeon L	2327200	32	Other	13	Other	2
Vilas	Sumach L	1020500	60	Other	4	Other	3
Vilas	Sunset L	1020900	185	Other	8	Other	6
Vilas	Tenderfoot L	2962400	437	Other	141	Other	9
Vilas	Towanda L	1022900	146	Other	20	Other	5
Vilas	Trout L	2331600	3816	1-2 Year Pe	1157	1-2 Year Pe	16
Vilas	Twin Island L	2959300	205	Other	8	Other	6
Vilas	Twin L Treaty Cha	1623801	3430	1-2 Year Pe	1552		
Vilas	Upper Aimer L	2955100	33	Other	2		
Vilas	Upper Buckatabon	1621800	494	Other	14	Other	11
Vilas	Upper Gresham L	2330800	366	Other	47	Other	9
Vilas	Van Vliet L	2956800	220	Other	0	Other	6
Vilas	Vance L	2327300	30	Other	12	Other	2
Vilas	Verna L	1540300	77			Other	3
Vilas	Voyageur L	1603400	130	Other	50	1-2 Year Pe	5
Vilas	W Bay L	2964000	368	Other	65	Other	4

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Vilas	W Plum L	1592500	75	Other	29	Other	3
Vilas	W Witches L	1177500	30	Other	2		
Vilas	Watersmeet L	1599400	100	Other	39	Other	4
Vilas	White Birch L	2340500	112	Other	43	Other	4
Vilas	White Sand L	2339100	734	Other	89	Other	14
Vilas	Wild Rice L	2329800	379	Other	113	Other	7
Vilas	Wildcat L	2336800	305	Other	40	Other	8
Vilas	Wolf L	2336100	393	Other	146	Other	9
Vilas	Yellow Birch L	1599600	202	1-2 Year Pe	154	1-2 Year Pe	8
Washburn	Balsam L	2112800	295	Other	111		
Washburn	Bass L	1833300	130	Other	50		
Washburn	Bass L	2451300	144	Other	20		
Washburn	Bass L	2451900	188	1-2 Year Pe	187	Other	6
Washburn	Bean L	2718500	100	Other	5		
Washburn	Beartrack North L	3000351	33	Other	13		
Washburn	Beartrack South L	2452300	65	Other	26		
Washburn	Big Bass L	2453300	203	Other	27		
Washburn	Birch L	2113000	368	Other	47		
Washburn	Cable L	2456100	185	Other	25		
Washburn	Chippanazie L	2722800	58	Other	23		
Washburn	Colton Fl	2702100	58	Other	23		
Washburn	Deep L	1844000	43	Other	17		
Washburn	Dunn L	2709800	193	Other	73		
Washburn	Gilmore L	2695800	389	Other	12		
Washburn	Horseshoe L	2470000	194	1-2 Year Pe	4		
Washburn	Island L	2470600	276	Other	36		
Washburn	L Nancy	2691500	772	Other	93	Other	14
Washburn	Leach L	2474400	30	Other	12		
Washburn	Leisure L	2475000	75			Other	3
Washburn	Little Long L	2664500	112	Other	5		
Washburn	Little Mud L	2107100	71	Other	28		
Washburn	Little Sand L	2477700	74	Other	11		
Washburn	Little Stone L	1862400	27	Other	2		
Washburn	Long L	2106800	3290	Other	1115		
Washburn	Matthews L	2710800	263	1-2 Year Pe	4	Other	7
Washburn	Mclain L	2481600	150	Other	21		
Washburn	Middle Mckenzie L	2706500	530	Other	66	Other	11
Washburn	Minong Fl	2692900	1564	Other	548		
Washburn	Mud L	2107700	103	Other	5		
Washburn	Pavlas L	2488100	44	Other	3		
Washburn	Rice L	2696000	132	Other	51		
Washburn	Ripley L	2492600	190	Other	26		
Washburn	S Twin L	2494500	115	Other	16		
Washburn	Shell L	2496300	2580	1-2 Year Pe	172	Other	30
Washburn	Silver L	2496900	188	Other	25		
Washburn	Slim L	2109300	224	Other	30		
Washburn	Spring L	1882900	42	Other	3		
Washburn	Spring L	2498600	211	Other	28		
Washburn	Stone L	1884000	39	Other	3		
Washburn	Stone L	1884100	523	Other	192		
Washburn	Tozer L	2502000	36	Other	2		
Washburn	Trego L	2712000	451	Other	57	Other	10